

CATALOGUE

Version: A-XIX

BASIC INFORMATION

Business Firm:

Elektro, a production cooperative in Bečov nad Teplou

Legal Form:

Cooperative
Company ID: 00028886, Tax ID: CZ00028886

Place of Business:

Bečov nad Teplou, Tovární 128, 364 64 Czech Republic

Contacts:

Telephone: +420 353 361 112
E-mail: export@elektrobecov.com, www.elektrobecov.com



The History and the Present Day

Elektro, a production cooperative in Bečov nad Teplou, is one of the leading Czech manufacturers of electrical connecting material with a long tradition. It was founded on 18 August 1945. The original intention to establish an electrical engineering plant expanded to building a production organisation shortly after its foundation. After 1948, the production programme of terminal blocks started, becoming the main production programme thanks to which the cooperative built a dominant position in former Czechoslovakia. In 1992, the cooperative was transformed to a cooperative of owners. A new conception of business and innovation of the current production programme as well as the development of new products was created under the new conditions.

The cooperative is an all-Czech company. The production and technical facilities allow to respond to the market demands. The cooperative has its own development and design facilities, technical production preparation, tool shop, and development workshop. The investments in the past few years have been focused on the renovation and modernisation of the production equipment. The construction of the new plating room, allowing for finishing metal on a modern automated line was the most important contribution of the qualitative changes in the electrical product range. The cooperative owns production technology for pressing plastic and metal, a screw mill (production of screws by forming and metal cutting). The production of electrical connecting material is the main production programme. Some of the free production capacity is used for the cooperative's own additional production programmes, the most important of which is the production of joins for the automotive industry. The remaining capacity is used for production orders and services for other organisations from the Czech Republic and abroad. Orientation to the customer and marketing are the main objectives of all our employees.

Quality and Environmental Policy

(Approved together with the Quality and Environment Handbook No. 70/17)

The Quality and Environmental Policy at Elektro v.d. in Bečov n. Teplou is prepared on the basis of the business strategy of the cooperative, following the basic objective of business – to achieve the highest turnover possible while expending optimal costs and minimising the impacts of the cooperative's activities and products on the environment, which is not neglected when running business activities.

Electrical connecting material represents 80% of the production. Electrical products are one of the product ranges where high demands are laid not only on functionality and reliability, but also safety and protection from electrical accidents and protection of the customer's property against fire caused by defects of electrical installations. Therefore, the declared policy perceives these increased requirements and focuses on continuous improvement of the quality of our production. We use methods and procedures in our production activities that may jeopardise the environment under specific conditions. This includes galvanisation of metal surface, metal working, metal and plastic pressing. These technologies use chemical substances and petroleum products that are also stored prior to their use. Hazardous waste and waste waters are formed.

Most of these processes are performed in Bečov, which is located in the protected landscape area of Slavkovský les. Near the cooperative's premises, the Teplá river flows, providing a source of water for municipalities along its lower flow. The town of Bečov is registered in the list of protected towns and municipalities. All of that engages us to pay extra attention and consideration of the environment when developing our business activities, to look for sources of potential risks, to eliminate risks with preventive measures, and to be prepared to eliminate the impact of a potential accident on the environment to the minimum. Therefore, we invest considerably in the protection and improvement of all elements of the environment.

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV

ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC
ELEKTROTECHNICKÝ PŘEDKSTAVY - ČESKÁ REPUBLIKA
INSTITUT ELECTROTECHNIQUE DESSAÏS - RÉPUBLIQUE TCHÈQUE
ELEKTROTECHNICKÝ HETÉBETÁTELŐHETÉNY - SZÉKESFEJÉRSZÁRMA

Pod Lisem 129, 171 02 Praha 8 - Troja

CERTIFIKÁT

č.: 2140063

Objednavatel: Elektro, výrobní družstvo v Bečově nad Teplou
Tovární 128, 364 64 Bečov nad Teplou, Česká republika

Výrobce/Držitel licence: Elektro, výrobní družstvo v Bečově nad Teplou
Tovární 128, 364 64 Bečov nad Teplou, Česká republika

Výrobek: Svorky

Obchodní značka:

Typ: RS 4

Jmenovité hodnoty: 0,5 - 6 mm² *); 0,5 - 4 mm² *); 1000 V AC, 32 A, UI: 1000 V

Elektrotechnický zkušební ústav na základě splnění požadavků certifikačního schématu „Značka ESC“ uděluje licenci na užívání značky

ESC

Souhlasí s touto značkou může držitel licence používat značku Česká kvalita (viz příloha).
Tato značka může být označována výrobek specifikovaný v tomto certifikátu po dobu platnosti níže uvedených smlouvy na užívání značky ESC, při dodržení všech pravidel uvedených v této smlouvě.

Právo označovat výrobek výše uvedenou značkou je založeno na:

- protokolu o zkouškách č. 404519-01/01 ze dne: 19.11.2014

Vzorek zkoušeného výrobka je ve shodě s požadavky:
ČSN EN 60947-7-1:10

- provedení inspekce v místě výroby podle dokumentu CIG 023 a CIG 024 č. 404225-01 ze dne 22.9.2014
- smlouvě na užívání značky ESC č. 404519 mezi objednavatelem a Elektrotechnickým zkušebním ústavem

1.12.2014

V Praze dne

Mgr. Miroslav Sedláček
Vedoucí certifikačního orgánu

razítko

ezú

404519-01



using certain hazardous substances in electrical and electronic equipment in accordance with Government Regulation 481/2012 Coll. as amended. We declare that our products do not contain any hazardous substances in a level exceeding the maximum values of concentrations. We also check the same with our suppliers.

REACH:

Our policy is to completely observe the Directive of the European Parliament and the Council (EC) No. 1907/2006 (REACH), On the Registration, Evaluation, Authorisation and Restriction of Chemicals. We regularly monitor and assess the list of SVHC substances (substances of very high concern), managed by the European Chemicals Agency, ECHA. We respect the REACH directive, i.e. the obligation of manufacturers and importers to register chemicals that are manufactured or imported in a quantity exceeding 1 tonne per year, and also the obligation to provide comprehensive information about chemicals in the entire supplier-consumer chain.

The electrical products are tested in compliance with CSN EN in the Electro-technical Testing Institute, EZÚ Prague (AO 201).

When the European standards are harmonised with IEC, the products receive internationally valid CB certificates based on tests. A product with such a licence is then marked with EŞ. A declaration of conformity is issued for products in compliance with Act No. 22/97 Coll. and Government Decree No. 17/2003 Coll. The products are marked with the CE symbol. RSA terminal blocks meet the seismic resistance according to CSN IEC 980:1993 and related standards. The selected products are then certified by international laboratories as well (KEMA, the Netherlands; GOST-R, Russia).

Evaluation of the life cycle:

The products stated in this catalogue, when used according to the Manufacturer's recommendations, do not have any significant negative impact on the environment. The products and packaging are made of materials that can be recycled at the end of their life cycle. The metal and plastic components can be separated and used as material in compliance with Act on Waste No. 185/2001 Coll., as amended. The packaging meets the terms and conditions of introducing packaging to the market, as stipulated by Act No. 477/2001 Coll., as amended, and it is made of 100% recyclable material.



During the product life cycle:

The products manufactured by our Company are made of materials that do not have a significant negative impact on any of the elements of the environment, provided that they are used under the conditions as they were tested and as recommended by the Manufacturer.

The obligations specified in Decree No. 352/2005 Coll., On Details of Handling Electrical Appliances and Electrical Waste, do not apply to the products mentioned above. However, we, as the Manufacturer, hereby declare that our products meet the limits for hazardous substances specified in Annex 5 of the Decree.

After the end of product life cycle – disposability of products and packaging:

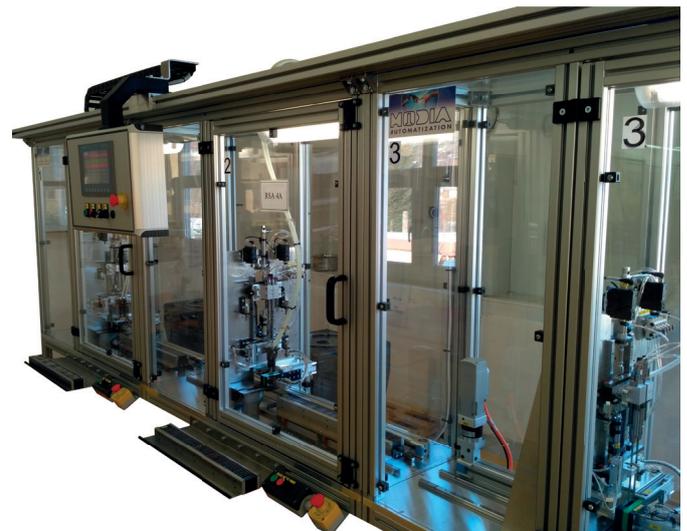
Metal components of the products – can be used as material through authorised entities in compliance with Act on Waste No. 185/2001 Coll., as amended.

Plastic components – can be used as material after separation in compliance with Act on Waste No. 185/2001 Coll., as amended. Meaning of symbols used on plastic components: PP – polypropylene, PA – polyamide, PE polyethylene, PS – polystyrene, PC – polycarbonate.

Packaging – meets the terms and conditions for introducing packaging to the market, as stipulated by Act No. 477/2001 Coll., as amended. If not contaminated, it can be handled according to the symbols on the packaging.

RoHS EU Directive fulfilment:

Our products meet the requirements of the Directive of the European Parliament and the Council No. 2011/65/EU (about the restriction of the using the certain hazardous substances in electrical and electronic equipment) and 2017/2102 / EU which is changing Directive 2011/65 / EU about the restriction of the

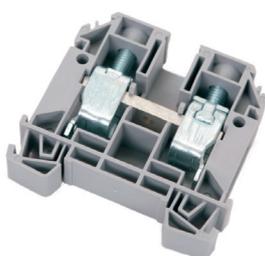


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1 TERMINAL BLOCKS RSA

Terminal blocks RSA are used for connecting low and extra low voltage electric circuits with copper solid, stranded and eventually aluminium conductors. The range of possible connectible conductors is from 0,2 mm² to 70 mm². Terminals can be labelled with continuous strips, marking profile, or caps with warning symbols.

Stranded conductors do not need to be terminated with ferrules. It is possible to apply terminal blocks according to ČSN 33 2000-5-51 ed. 3 in the environment AB7, AF 2. The operating temperature of terminal blocks RSA is -40 ÷ +105 °C.



Main parameters

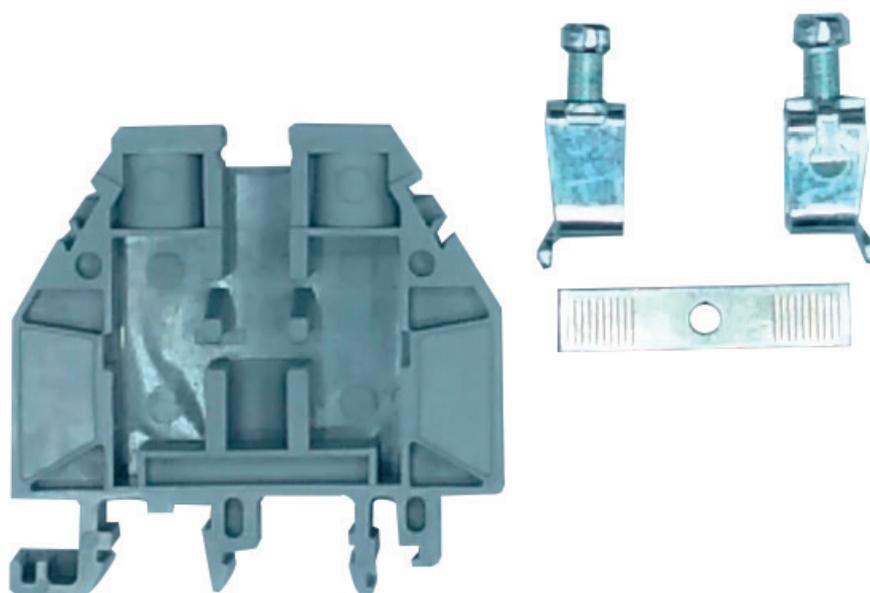
- Operating temperature -40 ÷ +105 °C (for RSA 70 A -20 ÷ +105 °C)
- Conductor cross section: 2,5 ÷ 70 mm²
- Insulating body : Polyamide PA 6, flammability V0 halogen free
- Pollution degree: 2
- Cover: IP 20 (RSA 35 A and RSA 70 A IP 10)
- Clamping on the DIN Rails TH 35 (for some types TH 15)
- Colours: 
- Testing: ČSN EN 60947-1 and 60947-7-1

Design

For all types a heat-treated steel bracket with a galvanic surface finish is used for reliable clamping of rigid or flexible copper or aluminium conductors (aluminium conductors are used according to technical information TNI 37 0606). Flexible wires do not have to be terminated by a cable socket.

Screws in RSA 2,5 A to RSA 16 A terminal blocks have a combined heads – a Phillips PH or a flat screwdriver can be used. RSA 35 A and RSA 70 A terminal blocks have screws with hexagonal slot for tightening with a hex key (inbus). The material of the screws is steel with galvanic coating.

The supplier guarantees that, using the recommended tools and tightening torque, the screw will not be damaged even when repeatedly tightened. All RSA terminals have an insulation housing made of polyamide PA 6 with V0 flammability according to UL 94, halogen-free. Eleven colours are available on all RSA terminal blocks.



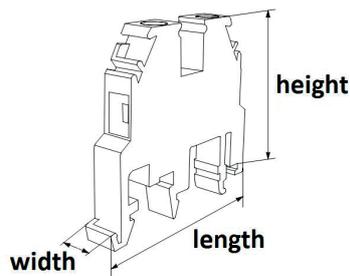
Accessories:

Terminal blocks have a wide range of accessories, which are summarized at the end of the chapter.

- Interconnections
- Upper interconnections
- Plug-in-bridges
- Measuring jack bushes
- Short circuit interconnections
- Cover labels
- Label carriers
- End cover plates
- Middle cover plates
- End clamps
- Marking tapes and profile



1 TERMINAL BLOCKS RSA

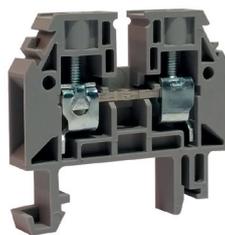
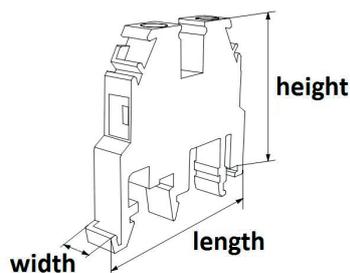


	RSA 2,5 A	RSA 4 A	RS 4	
Rated cross-section [mm ²]	2,5	4	4	
Rated current [A]	24 ¹	32	32	
Short-time withstand current [A]	300	480	480	
Rated voltage U _i [V]	1 000	1 000	1 000	
Rated impulse withstand voltage U _{imp} [V]	6 000	4 000	6 000	
Conductor cross-section [mm ²]	Solid conductor	0,2 ÷ 2,5	0,5 ÷ 6	0,5 ÷ 6
	Stranded conductor	0,5 ÷ 2,5	0,5 ÷ 4	0,5 ÷ 6
	Finely stranded conductor	0,2 ÷ 2,5	0,5 ÷ 4	0,5 ÷ 4
	2 x Solid conductor, stranded, finely stranded	0,5 ÷ 1	0,5 ÷ 2,5	0,5 ÷ 1,5
	3 x Solid conductor, stranded, finely stranded	-	0,5 ÷ 1	0,5 ÷ 1
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	1,5	4	2,5	
Stripping length [mm]	6,5	9,5	9	
Tightening torque [Nm]	0,4	0,5	0,5	
Tools	Screwdriver PH 0	Screwdriver PH 0	Screwdriver PH 0 / 0,5 x 3	
Assembly method (on DIN rail)	TH 15, TH 35, G 32	TH 15, TH 35, G 32	TH 15, TH 35, G 32	
Pollution degree	2	2	2	
IP code	20	20	20	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105	
Number of clamping points per level	2	2	2	
Number of levels	1	1	1	
End cover plate required	YES	YES	YES	
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	ČSN EN 60947-7-1	
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5	6,6 / 39 / 41,5	6 / 40,5 / 41,5	
Weight [g]	7	8	8	
Packing [pcs]	100	100	100	
Order number	white	A 121 111	A 131 111	A 431 111
	light blue	A 121 121	A 131 121	A 431 121
	dark blue	A 121 131	A 131 131	A 431 131
	beige	A 121 141	A 131 141	A 431 141
	brown	A 121 151	A 131 151	A 431 151
	red	A 121 161	A 131 161	A 431 161
	orange	A 121 171	A 131 171	A 431 171
	black	A 121 181	A 131 181	A 431 181
	purple	A 121 191	A 131 191	A 431 191
	grey	A 121 211	A 131 211	A 431 211
	green	A 821 255	A 831 265	A 431 251
	yellow	A 821 265	A 831 255	A 431 261

¹ In case a plug-in-bridge is applied, the current load for RSA 2,5 A terminal is max 22 A.



1 TERMINAL BLOCKS RSA

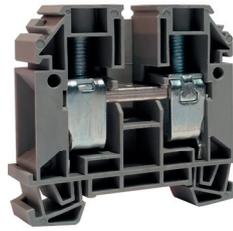
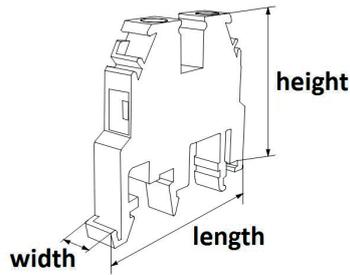


	RSA 6 A ¹	RSA 10 A ¹	RSA 16 A	
Rated cross-section [mm ²]	6	10	16	
Rated current [A]	41	57	76	
Short-time withstand current [A]	720	1 200	1 920	
Rated voltage U _i [V]	1 000	1 000	1 000	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000	4 000	
Conductor cross-section [mm ²]	Solid conductor	0,5 ÷ 10	1,5 ÷ 16	
	Stranded conductor	0,5 ÷ 10	1,5 ÷ 16	
	Finely stranded conductor	0,5 ÷ 6	1,5 ÷ 10	
	2 x Solid conductor, stranded, finely stranded	2,5	1,5 ÷ 4	
	3 x Solid conductor, stranded, finely stranded	0,5 ÷ 1,5	1,5 ÷ 2,5	
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	6	10	16	
Stripping length [mm]	12	12	9,5	
Tightening torque [Nm]	0,8	1,2	2	
Tools	Screwdriver PH 1	Screwdriver PH 2	Screwdriver PH 2	
Assembly method (on DIN rail)	TH 35	TH 35	TH 15, TH 35, G 32	
Pollution degree	2	2	2	
IP code	20	20	20	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105	
Number of clamping points per level	2	2	2	
Number of levels	1	1	1	
End cover plate required	YES	YES	YES	
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	ČSN EN 60947-7-1	
Dimensions [mm] (width / height / length)	8 / 45,2 / 50	10 / 45,2 / 50	12,1 / 51,5 / 53	
Weight [g]	14	19	28	
Packing [pcs]	100	50	50	
Order number	white	A 141 111	A 151 111	A 161 116
	light blue	A 141 121	A 151 121	A 161 126
	dark blue	A 141 131	A 151 131	A 161 136
	beige	A 141 141	A 151 141	A 161 146
	brown	A 141 151	A 151 151	A 161 156
	red	A 141 161	A 151 161	A 161 166
	orange	A 141 171	A 151 171	A 161 176
	black	A 141 181	A 151 181	A 161 186
	purple	A 141 191	A 151 191	A 161 196
	grey	A 141 211	A 151 211	A 161 216
	green	A 141 251	A 151 251	A 861 256
yellow	A 141 261	A 151 261	A 861 266	

¹ To meet and comply with legislative and safety requirements when installing RSA 6 A and RSA 10 A interconnections, it is necessary to use side partitions.



1 TERMINAL BLOCKS RSA



	RSA 35 A	RSA 70 A	
Rated cross-section [mm ²]	35	70	
Rated current [A]	125	192	
Short-time withstand current [A]	4 200	8 400	
Rated voltage U _i [V]	1 000	1 000	
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	
Conductor cross-section [mm ²]	Solid conductor	2,5 ÷ 35	10 ÷ 16
	Stranded conductor	4 ÷ 50	25 ÷ 95
	Finely stranded conductor	4 ÷ 35	16 ÷ 70
Conductor cross-section [mm ²]	2 x Solid conductor, stranded conductor, finely stranded	2,5 ÷ 16	10 ÷ 16
	3 x Solid conductor, stranded conductor, finely stranded	2,5 ÷ 10	-
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	35	70	
Stripping length [mm]	15	18	
Tightening torque [Nm]	2,5	6	
Tools	Inbus number 3	Inbus number 6	
Assembly method (on DIN rail)	TH 35	TH 35	
Pollution degree	2	2	
IP code	10 ¹	10	
Operating temperature [°C]	-40 ÷ +105	-20 ÷ +105	
Number of clamping points per level	2	2	
Number of levels	1	1	
End cover plate required	YES	NO	
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	
Dimensions [mm] (width / height / length)	16,5 / 58,9 / 65	24 / 85 / 70	
Weight [g]	56	137	
Packing [pcs]	20	10	
Order number	white	A 171 111	A 181 111
	light blue	A 171 121	A 181 121
	dark blue	A 171 131	A 181 131
	beige	A 171 141	A 181 141
	brown	A 171 151	A 181 151
	red	A 171 161	A 181 161
	orange	A 171 171	A 181 171
	black	A 171 181	A 181 181
	purple	A 171 191	A 181 191
	grey	A 171 211	A 181 211
	green	A 871 250	A 581 241
	yellow	A 871 260	A 581 261

¹ To achieve IP 20 level of protection in RSA 35 A, it is necessary to use additional accessories – side cover in case the terminal has no conductor connected or when a 10 mm² cross-section conductor or smaller is connected – otherwise the terminal has IP 10 protection class.



1.1 Accessories for terminal blocks RSA

1.1.1 End cover plates

		RSA 2,5A	RSA 4A	RS 4	RSA 6A	RSA 10A	RSA 16A	RSA 35A	RSA 70A
Order number	white	B 621 111	B 631 111	B621 111	B 641 111	B 641 111	B 661 113	B 671 111	-
	light blue	B 621 121	B 631 121	B 621 121	B 641 121	B 641 121	B 661 123	B 671 121	-
	dark blue	B 621 131	B 631 131	B 621 131	B 641 131	B 641 131	B 661 133	B 671 131	-
	beige	B 621 141	B 631 141	B 621 141	B 641 141	B 641 141	B 661 143	B 671 141	-
	brown	B 621 151	B 631 151	B 621 151	B 641 151	B 641 151	B 661 153	B 671 151	-
	red	B 621 161	B 631 161	B 621 161	B 641 161	B 641 161	B 661 163	B 671 161	-
	orange	B 621 171	B 631 171	B 621 171	B 641 171	B 641 171	B 661 173	B 671 171	-
	black	B 621 181	B 631 181	B 621 181	B 641 181	B 641 181	B 661 183	B 671 181	-
	purple	B 621 191	B 631 191	B 621 191	B 641 191	B 641 191	B 661 193	B 671 191	-
	grey	B 621 211	B 631 211	B 621 211	B 641 211	B 641 211	B 661 213	B 671 211	-
	green	B 921 251	B 931 251	B 921 251	B 941 251	B 941 251	B 961 251	B 971 251	-
	yellow	B 921 261	B 931 261	B 921 261	B 941 261	B 941 261	B 961 261	B 971 261	-

1.1.2 Middle cover plates

		RSA 2,5A	RSA 4A	RS 4	RSA 6A	RSA 10A	RSA 16A	RSA 35A	RSA 70A
Order number	white	B 621 112	B 631 112	B 621 112	B 641 112	B 641 112	B 661 114	B 671 112	-
	light blue	B 621 122	B 631 122	B 621 122	B 641 122	B 641 122	B 661 124	B 671 122	-
	dark blue	B 621 132	B 631 132	B 621 132	B 641 132	B 641 132	B 661 134	B 671 132	-
	beige	B 621 142	B 631 142	B 621 142	B 641 142	B 641 142	B 661 144	B 671 142	-
	brown	B 621 152	B 631 152	B 621 152	B 641 152	B 641 152	B 661 154	B 671 152	-
	red	B 621 162	B 631 162	B 621 162	B 641 162	B 641 162	B 661 164	B 671 162	-
	orange	B 621 172	B 631 172	B 621 172	B 641 172	B 641 172	B 661 174	B 671 172	-
	black	B 621 182	B 631 182	B 621 182	B 641 182	B 641 182	B 661 184	B 671 182	-
	purple	B 621 192	B 631 192	B 621 192	B 641 192	B 641 192	B 661 194	B 671 192	-
	grey	B 621 212	B 631 212	B 621 212	B 641 212	B 641 212	B 661 214	B 671 212	-
	green	B 921 252	B 931 252	B 921 252	B 941 252	B 941 252	B 961 252	B 971 252	-
	yellow	B 921 262	B 931 262	B 921 262	B 941 262	B 941 262	B 961 262	B 971 262	-



Middle cover plate



End cover plate

End and middle cover plates

Each type of RSA terminal blocks is also optionally available with end and middle cover plates in twelve colour variations (except the RSA 70 A terminal, which is encapsulated). The cover plates are made of polyamide PA 6 with V0 flammability according to UL 94. The end cover plates are used to close off the terminals and protect the live parts. When it is necessary to separate two adjacent terminals and extend the air gap between the living parts due to the nature of the application, the middle cover plate is used.

1 TERMINAL BLOCKS RSA

1.1.3 Interconnections and accessories

	RSA 2,5A	RSA 4A	RS 4	RSA 6A	RSA 10A	RSA 16A	RSA 35A	RSA 70A
Plug-in-bridge 2 poles	C 427 100	-	C 431 117	-	-	-	-	-
Plug-in-bridge 3 poles	C 427 200	-	C 431 217	-	-	-	-	-
Plug-in-bridge 4 poles	C 427 300	-	-	-	-	-	-	-
Plug-in-bridge 24 poles	-	-	C 438 017	-	-	-	-	-
Upper interconnection 2 poles	-	C 137 112	-	C 147 112	C 157 112	-	-	-
Upper interconnection 3 poles	-	C 137 212	-	C 147 212	C 157 212	-	-	-
Upper interconnection 4 poles	-	C 137 312	-	C 147 312	C 157 312	-	-	-
Upper interconnection 10 poles	-	C 137 912	-	C 147 912	C 157 912	-	-	-
Interconnection 2 poles	-	C 131 112	C 134 112	C 147 102	C 157 110	C 167 111	C 177 112	C 191 110
Interconnection 3 poles	-	C 131 212	C 134 212	C 147 202	C 157 210	C 167 211	C 177 212	-
Interconnection 4 poles	-	C 135 312	C 134 312	C 147 302	C 157 310	-	-	-
Interconnection 5 poles	-	C 135 412	-	-	-	-	-	-
Interconnection 6 poles	-	C 135 512	-	-	-	-	-	-
Interconnection 7 poles	-	C 135 612	-	-	-	-	-	-
Interconnection 8 poles	-	C 135 712	-	-	-	-	-	-
Interconnection 9 poles	-	C 135 812	-	-	-	-	-	-
Interconnection 10 poles	-	C 135 912	C 134 912	C 147 902	C 157 910	-	-	-
Plug-in-bridge from side 10 poles	-	C 431 911	-	-	-	-	-	-
Label bracket	G 310 000							
Measuring jack bush	-	C 235 010	C 235 010	C 246 020	C 246 020	C 267 020	C 277 020	-
Jack bush for ZP x	-	C 235 010	C 634 010	C 246 020	-	-	-	-
Short circuit interconnection	-	C 337 120	C 344 116	C 349 129	-	-	-	-
Cover label	-	G 420 025	G 412 509	G 410 030	G 410 030	G 410 056	G 412 566	G 420 070
Cover label A ^I	-	G 520 026	-	-	-	-	-	-
Cover label B ^{II}	-	G 512 426	-	-	-	-	-	-
Cover label C ^{III}	-	G 512 126	-	-	-	-	-	-
Cover label D ^{IV}	-	G 620 026	-	-	-	-	-	-
Cover label E ^V	-	G 612 426	-	-	-	-	-	-
Cover label F ^{VI}	-	G 612 126	-	-	-	-	-	-
Side face cover RSA 35A	-	-	-	-	-	-	G 420 066	-



Plug-in-bridges



Upper interconnection



Interconnection



Label carrier



Short circuit interconnection



Cover label for RSA 4 A group



Measuring jack bush



Cover label for individual clamps



Side face cover RSA 35A

^I Label bracket is used for marking group of terminals.

^{II} Symbol: „Flash“ - for a group of four terminals

^{III} Text: „Under voltage even when the main power switch is off“ - for a group of four terminals

^{IV} Text: „Under voltage from an external source „- for a group of four terminals

^V Symbol: „Flash“ - for a group of five terminals

^{VI} Text: „Under voltage even when the main power switch is off“ - for a group of five terminals

^{VII} Text: „ Under voltage from an external source „- for a group of five terminals

Interconnections and upper interconnections

In order to transfer power energy, adjacent terminals can be interconnected via flat and top interconnections. Interconnections are generally offered with 2 to 10 poles (see table Interconnections). Upper interconnections allow easy installation and are offered for the RSA 10 A line.

Plug-in-bridges

For general connections and polarity distribution, adjacent RSA 2,5 A or RS 4 terminals can be interconnected using a plug-in-bridge. 2 to 4-pole plug-in-bridges are available for RSA 2,5 A terminals. 2, 3, 4 to 24-pole plug-in-bridges are available for RS 4 terminals. It is recommended to use the screwdriver to remove plug-in-bridges.

Measuring jack bushes

Measuring jack bushes are designed for taking simple measurements of voltage or making other checks (e.g. continuity, dielectric, etc.). When the measuring jack bush is installed, the protection class is IP 10 (if the insulation housing is not covered with a cover label and with partition in RSA 6 A and RSA 10 A terminals).

Measuring jack bushes are brass elements with threaded shaft at the bottom and are screwed into the centre opening in the bridge of the terminal block. The measuring holes have a cavity at the top for the insertion of a 4 mm measuring tip. The measuring holes are available for all types of terminals except RSA 2,5 A and RSA 70 A, which has a hole in one of the screw heads for a 4 mm measuring tip.

Short circuit interconnections

These accessories are used to create an electrical link between two adjacent terminals, which have to be equipped with a jack for ZP 4 A, ZP 4 or ZP 6 A. The short circuit interconnections is inserted into the jacks and can be removed without any tools. A measuring jack bush, from which a short circuit interconnections was removed, then allows to use measuring equipment (socket for 4 mm measuring tip / new short circuit interconnections for RS 4 have a diameter of 3,5 mm).

Cover labels

Cover labels are used to cover the front (top) of the insulation housings. Insert a cover label or cap by snapping the feet at the bottom of the label into the slot in the insulation housing. Cover labels are designed for individual terminal blocks in types of RSA 4 A to RSA 70 A and RS 4. Cover labels for a group of RSA 4 A terminals are designed for a group of four or five terminals. They are available in yellow colour with a lightning symbol or with inscriptions "Energized from a external source" and "Energized even when the main switch is off". It is also possible to supply cover labels or caps with other texts or symbols on request. The cover labels are made of polyamide PA 6 with V0 flammability according to UL 94.

Label rack

Label racks are used to label an assembly (set) of terminals or other devices installed on a DIN rail. Can be installed on rails TH 35 and TH 15.

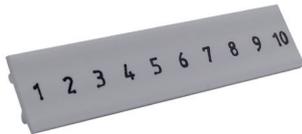
End clamps RSA L 15 / 35 and EURO (see Chapter 8)

End clamps are used to secure a line of terminals or other devices to a DIN rail. According to the type of DIN rail and the size of the terminals, it is necessary to select the correct type of end clamp (it is recommended to use end clamp RSA L 35-2 for larger terminals such as RSA 35 A and RSA 70 A). The end clamps are made of polyamide PA 6 with V0 flammability according to UL 94.

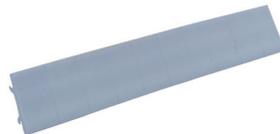
1 TERMINAL BLOCKS RSA

1.1.4 Marking system

	RSA 2,5A	RSA 4A	RS 4	RSA 6A	RSA 10A	RSA 16A	RSA 35A	RSA 70A
Marking strip not pre-cut without printing	G 120 000 ^I							
Marking strip not pre-cut with printing [1pc = 1label]	G 110 096	G 110 026	G 110 009	G 110 032	G 110 042	G 110 056	G 110 066	G 110 070
Marking strip pre-cut without printing [1pc = 1label]	G 140 096 ^{II}	G 140 026 ^{II}	G 140 009 ^{II}	G 140 032 ^{II}	G 140 042 ^{III}	G 140 056 ^{III}	G 140 066 ^{III}	G 140 070 ^{III}
Marking strip pre-cut with printing [1pc = 1label]	G 130 096	G 130 026	G 130 009	G 130 032	G 130 042	G 130 056	G 130 066	G 130 070
Self-adhesive foil	J 461 100	J 461 100	J 461 100	J 461 100	J 461 200	J 461 200	J 461 200	J 461 200
Self-adhesive foil	J 462 100	J 462 100	J 462 100	J 462 100	J 461 100	J 462 100	J 462 100	J 462 100
Marking tag 5 mm pre-cut without printing	G 160 096							
Marking tag 5 mm pre-cut with printing	G 170 096							



Pre-cut marking strip with printing 1 - 10



Pre-cut marking strip without printing



Marking strip not pre-cut with printing L1

Ordering of descriptions

The printing of the continuous marking strips and profiles for the RSA and RS series terminals can be ordered directly from the supplier. Printing dimensions are limited by the width of the terminals or the length of the strip.

Customers who want to reduce their costs as much as possible while maintaining the highest quality of services are recommended to use the online ordering system. The online ordering system is available on the company's website: www.elektrobecov.com and is available after registering. The interface for custom ordering has been tailored for customer needs in accordance with the requirement of simplicity, reliability and practicality. The user does not have to install anything. When ordering, simply go step by step like in normal products purchase.

The second option is to specify the required description via email (export@elektrobecov.com), in which you need to specify the size of the terminal, the direction of the description and any specific characters.



^I 1 pc = 20 strips of 50 cm

^{II} Can be ordered only in multiple 10 pieces

^{III} Can be ordered only in multiple 5 pieces

2 TERMINAL BLOCKS RSA PE, RSA PEN

Terminal blocks RSA PE, RSA PEN are designed for connection of protective conductors in system TN-C, TN-S. They are constructional designed with a conductive connection of the protective conductor to the DIN rail TH 35x7,5 and TH 35x15 steel, galvanized. The conductive connection is reliably secured by the contact while following the assembly instructions supplied with the product.

RSA PE terminal blocks have identical dimensions and profile of the corresponding RSA line.

The supporting rails can be used as a busbar for PEN function only when the material of the rail is Cu and Cu conductor cross section is from 10 mm² up.

The terminal blocks are tested according to the standard ČSN EN 60 947-7-2.



Design

Terminal blocks RSA PE are fitted with steel brackets and screws with galvanic coating. A screwdriver with flat blade or Phillips PH tipe can be used for the installation.

The insulation housing is made of polyamide PA 6, V0 flammability according to UL 94, halogen-free. The terminal blocks are composed of two parts: green and yellow. The terminal is encapsulated on both sides. Both parts of the terminal are secured together with pins or special latches in new types.

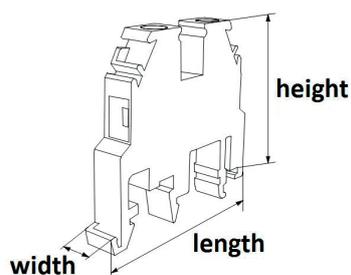
The conductive connection of the protective conductor with the TH steel support rail is proved by a screw connection that provides a robust mechanical attachment, including a reliable conductive connection with the TH rail using outer (brass with coating) and inner (steel with coating) movable clamps.



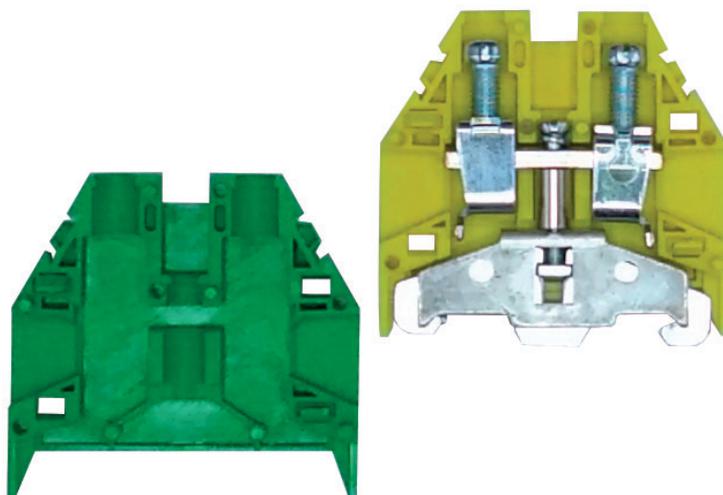
Main parameters

- Operating temperature -40 ÷ +105 °C
- Conductor cross section: 2,5 ÷ 70 mm²
- Insulating body: Polyamide PA, flammability V0, halogen free
- Contamination class: 2
- Clamping on the DIN Rail TH 35
- Colour: yellow green
- Testing: ČSN EN 60 947-7-2

2 TERMINAL BLOCKS RSA PE, RSA PEN



	RSA PE 2,5 A	RSA PE 4 A	RS PE 4
Rated cross section [mm ²]	2,5	4	4
Short-time withstand voltage [A]	300	480	480
Rated impulse withstand voltage [V]	4 000	4 000	4 000
Conductor cross section [mm ²]	Solid conductor	0,2 ÷ 2,5	0,5 ÷ 6
	Stranded conductor	0,5 ÷ 2,5	0,5 ÷ 4
	Finely stranded	0,2 ÷ 2,5	0,5 ÷ 4
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	1,5	2,5	2,5
Stripping length [mm]	6,5	9,5	10
Tightening torque [Nm]	0,4	0,5	0,5
Tools	Screwdriver PH 0	Screwdriver PH 0	Screwdriver PH 0 / 0,5 x 3
Assembly method (on DIN rail)	TH 35	TH 35	TH 35
Pollution degree	2	2	2
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105
Number of clamping points per level	2	2	2
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	ČSN EN 60 947-7-2	ČSN EN 60 947-7-2	ČSN EN 60 947-7-2
Dimensions [mm] (width / height / length)	7 / 40,5 / 48	7,4 / 39,4 / 48	7 / 40,5 / 48
Weight [g]	24	25	25
Packing [pcs]	20	20	20
Order number	A 521 230	A 531 231	A 531 241

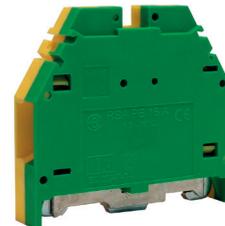
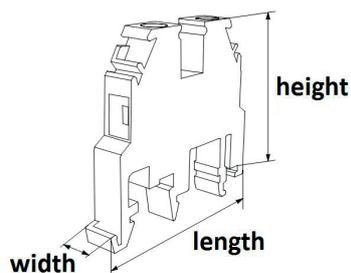


CB



CE

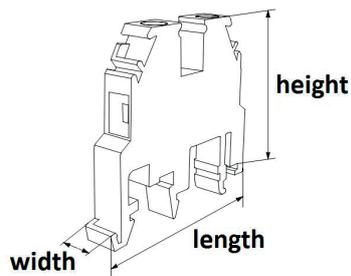
2 TERMINAL BLOCKS RSA PE, RSA PEN



	RSA PE 6 A	RSA PE 10 A	RSA PE 16 A
Rated cross section [mm ²]	6	10	16
Short-time withstand voltage [A]	720	1 200	1 920
Rated impulse withstand voltage [V]	4 000	4 000	4 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 10	1,5 ÷ 16
	Stranded conductor	0,5 ÷ 10	1,5 ÷ 16
	Finely stranded	0,5 ÷ 6	1,5 ÷ 10
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	6	10	16
Stripping length [mm]	12	12	9,5
Tightening torque [Nm]	0,8	1,2	2
Tools	Screwdriver PH 1	Screwdriver PH 2	Screwdriver PH 2
Assembly method (on DIN rail)	TH 35	TH 35	TH 35
Pollution degree	2	2	2
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105
Number of clamping points per level	2	2	2
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	ČSN EN 60 947-7-2	ČSN EN 60 947-7-2	ČSN EN 60 947-7-2
Dimensions [mm] (width / height / length)	8 / 44,4 / 50	10 / 44,4 / 50	12,1 / 50,5 / 53
Weight [g]	33	39	46
Packing [pcs]	20	20	20
Order number	A 541 231	A 551 231	A 561 116



2 TERMINAL BLOCKS RSA PE, RSA PEN



RSA PE 35 A

RSA PEN 70 A

Rated cross section [mm ²]	35	70	
Short-time withstand voltage [A]	4 200	8 400	
Rated impulse withstand voltage [V]	4 000	3 500	
Conductor cross section [mm ²]	Solid conductor	2,5 ÷ 16	10 ÷ 16
	Stranded conductor	4 ÷ 50	10 ÷ 95
	Finely stranded	4 ÷ 35	16 ÷ 70
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	35	70	
Stripping length [mm]	15	18	
Tightening torque [Nm]	2,5	6	
Tools	Screwdriver PH 2	Inbus number 6	
Assembly method (on DIN rail)	TH 35	TH 35	
Pollution degree	2	2	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	
Number of clamping points per level	2	2	
Number of levels	1	1	
End cover plate required	NO	NO	
Testing	ČSN EN 60 947-7-2	ČSN EN 60 947-7-2	
Dimensions [mm] (width / height / length)	16,5 / 57 / 65	24 / 85 / 70	
Weight [g]	97	196	
Packing [pcs]	20	10	
Order number	A 571 231	A 591 231	

2.1 Accessories

	RSA PE 2,5 A	RSA PE 4 A	RS PE 4	RSA PE 6 A	RSA PE 10 A	RSA PE 16 A	RSA PE 35 A	RSA PEN 70 A
Marking strip not pre-cut without description	G 120 000 ^I							
Marking strip not pre-cut with description [1pc = 1label]	G 110 097	G 110 030	G 110 002	G 110 032	G 110 042	G 110 056	G 110 066	G 110 070
Marking strip pre-cut without description [1pc = 1label]	G 140 097 ^{II}	G 140 030 ^{II}	G 140 002 ^{II}	G 140 032 ^{II}	G 140 042 ^{III}	G 140 056 ^{III}	G 140 066 ^{III}	G 140 070 ^{III}
Marking strip pre-cut with description [1pc = 1label]	G 130 097	G 130 030	G 130 002	G 130 032	G 130 042	G 130 056	G 130 066	G 130 070
Marking tag 5mm pre-cut without description	G 160 096							
Marking tag 5mm pre-cut with description	G 170 096							



Marking strip not pre-cut with description PE



Marking strip pre-cut without description



Marking strip with description 1 - 10

Ordering of descriptions

The printing of the continuous marking strips and profiles for the RSA and RS series terminals can be ordered directly from the supplier. printing dimensions are limited by the width of the terminals or the length of the strip.

Customers who want to reduce their costs as much as possible while maintaining the highest quality of services are recommended to use the online ordering system. The online ordering system is available on the company's website: www.elektrobecov.com and is available after registering. The interface for custom ordering has been tailored for customer needs in accordance with the requirement of simplicity, reliability and practicality. The user does not have to install anything. When ordering, simply go step by step like in normal products purchase.

The second option is to specify the required description via email (export@elektrobecov.com), in which you need to specify the size of the terminal, the direction of the description and any specific characters.

^I 1 pc = 20 strips / 50 cm

^{II} Possibility to order only in multiple of 10 pieces

^{III} Possibility to order only in multiple 5 pieces

3 MULTILEVEL TERMINAL BLOCKS

The multilevel terminal blocks are offered in the RSA, EURO D4, EURO Z and EURO W series. They are designed for connecting electric circuits of extra low and low voltage with copper conductors with a solid or stranded core (possible without ferrules) wherever space needs to be saved, or in installations with a higher number of connection points. The offer includes two-levels and three-levels terminal blocks. Each connection point can be marked.

Terminal blocks are designed to connect the levels horizontally using connecting segments (optional accessories) or vertically via internal connection in the terminal blocks.

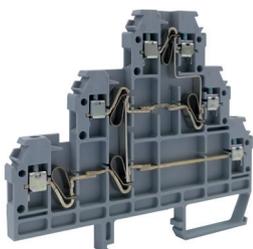
The terminals can be attached to steel load-bearing bars TH 35. They can be attached to the bar individually or in blocks. The RSA multilevel terminal blocks can be linked before attaching them to the bar using arresting pins.



Design

Multilevel terminals are fitted with steel brackets and screws with galvanic coating. In the RSA line can be used flat screwdriver or Phillips PH screwdriver.

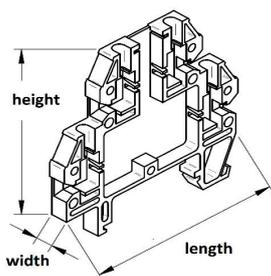
The terminals can be clamped to a TH rail individually or in blocks – for better stability, the insulation housings of the RSA lines are equipped with locking pins and holes that allow to connect the terminals together before installing them on a rail. To remove the terminals from the rail, it is necessary to separate the terminals on the rail and remove them from the rail using a flat screwdriver. A protection class of IP 20 is guaranteed even when using plug-in-bridges or caps.



Main parameters

- Conductor cross section: $2,5 \div 4 \text{ mm}^2$
- Insulating body: Polyamide PA 6, flammability V0 halogen free
- Pollution degree: 2
- Cover: IP 20
- Clamping on the DIN Rail TH 35
- Colour: grey
- 2 or 3 levels
- Suitable for connecting electric circuits of low and medium voltage with copper conductors
- Testing: ČSN EN 60998-1, 60998-2-1, ČSN EN 60947-1 and 60947-7-1

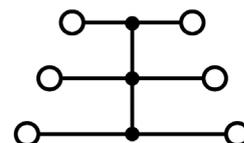
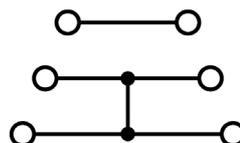
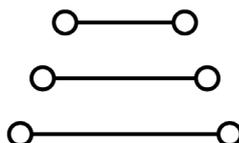
3.1 RSA terminal blocks



RSA 2,5 A P3H

RSA 2,5 A P3V2

RSA 2,5 A P3V3



Rated cross-section [mm ²]	2,5	2,5	2,5	
Rated current [A]	24 ¹	24 ¹	24 ¹	
Short-time withstand current [A]	300	300	300	
Rated voltage U _i [V]	750~; 830 =	750~; 830 =	750~; 830 =	
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	4 000	
Conductor cross section [mm ²]	Solid conductor	0,2 ÷ 2,5	0,2 ÷ 2,5	0,2 ÷ 2,5
	Finely stranded conductor	0,2 ÷ 1,5	0,2 ÷ 1,5	0,2 ÷ 1,5
	2 x Solid conductor, Finely stranded conductor	0,2 ÷ 1	0,2 ÷ 1	0,2 ÷ 1
Stripping length [mm]	6	6	6	
Tightening torque [Nm]	0,4	0,4	0,4	
Tools	Screwdriver PH 0 / 0,5 x 3			
Assembly method (on DIN rail)	TH 35	TH 35	TH 35	
Pollution degree	2	2	2	
IP code	20	20	20	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105	
Number of clamping points	6	6	6	
Number of levels	3	3	3	
End cover plate required	YES	YES	YES	
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	ČSN EN 60947-7-1	
Dimensions [mm] (width / height / length)	5 / 87 / 106,6	5 / 87 / 106,6	5 / 87 / 106,6	
Weight [g]	27	27	29	
Packing [pcs]	20	20	20	
Order number	A 121 214	A 121 218	A 121 219	

¹In case a plug-in-bridge is applied, the current load for RSA 2,5 A terminal is max 22 A.



3 MULTILEVEL TERMINAL BLOCKS

3.1.1 Accessories

	RSA 2,5A P3H	RSA 2,5A P3V2	RSA 2,5A P3V3
Plug-in-bridge 2 poles	C 427 100	-	C 427 100
Plug-in-bridge 3 poles	C 427 200	-	C 427 200
Plug-in-bridge 4 poles	C 427 300	-	C 427 300
Marking strip not pre-cut without printing		G 120 000 ¹	
Marking strip not pre-cut with printing [1 pc = 1 label]		G 110 096	
Marking strip pre-cut without printing [1 pc = 1 label]		G 140 096	
Marking strip pre-cut with printing [1 pc = 1 label]		G 130 096	
End cover plate [1 pc = 1 label]		B 121 213	
Marking tag 5 mm pre-cut without printing		G 160 096	
Marking tag 5 mm pre-cut with printing		G 170 096	

The description can be prepared for according to customer request. You can enter it via online ordering system on our website or by e-mail. For more details, see chapter 1.1.4 Marking system.



Plug-in-bridge



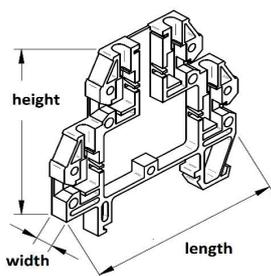
Marking strip with pre-cut description



End cover plate

¹ 1 pc = 20 strips / 50 cm

3.2 EURO terminal blocks



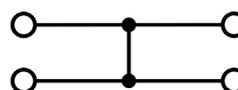
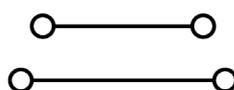
D4/P2H



D4/P2V2



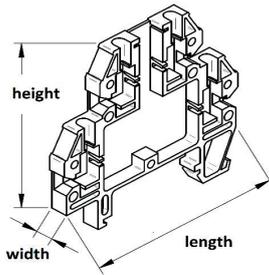
D4/P1-2



Rated cross-section [mm ²]	4	4	4
Rated current [A]	32	32	32
Short-time withstand current [A]	480	480	480
Rated voltage U _i [V]	800~; =	800~; =	800~; =
Rated impulse withstand voltage U _{imp} [V]	8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 4	0,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 2,5	0,5 ÷ 2,5
Stripping length [mm]	10	10	10
Tightening torque [Nm]	0,6	0,6	0,6
Tools	Flat screwdriver 0,5 x 3		
Assembly method (on DIN rail)	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points	4	4	4
Number of levels	2	2	2
End cover plate required	YES	YES	YES
Testing	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)	6 / 55 / 72	6 / 55 / 72	6 / 55 / 72
Weight [g]	19	19	18
Packing [pcs]	50	50	50
Order number	A 133 214	A 133 218	A 133 210



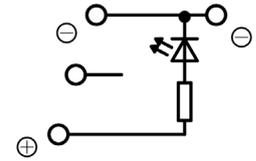
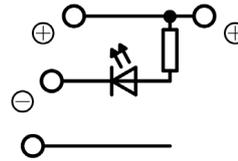
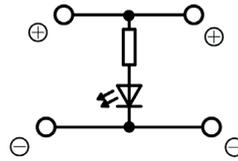
3 MULTILEVEL TERMINAL BLOCKS



D4/LED 12-24

Z2,5/P3 LED (LP)

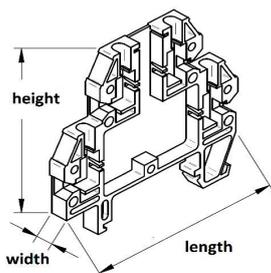
Z2,5/P3 LED (LN)



Rated cross-section [mm ²]	4	2,5	2,5
Rated current [A]	32	16	16
Short-time withstand current [A]	480	300	300
Rated voltage U _i [V]	12 – 24~; =	12 – 24~; =	12 – 24~; =
Rated impulse withstand voltage U _{imp} [V]	8 000	4 000	4 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 4	0,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 2,5	0,5 ÷ 2,5
Stripping length [mm]	10	7	7
Tightening torque [Nm]	0,6	0,5	0,5
Tools	Flat screwdriver 0,5 x 3		
Assembly method (on DIN rail)	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points	4	4	4
Number of levels	2	3	3
End cover plate required	YES	YES	YES
Testing	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)	6 / 55 / 72	5,3 / 47,5 / 62	5,3 / 47,5 / 62
Weight [g]	19	12	12
Packing [pcs]	50	25	25
Order number	A 183 210	A 126 214 (LED)	A 124 214 (LED)
		A 127 214 (LED)	A 125 214 (LED)



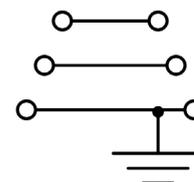
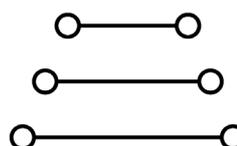
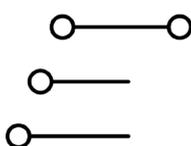
3 MULTILEVEL TERMINAL BLOCKS



Z2,5/P3

W2,5/P3H

W2,5/P3H-PE



Rated cross-section [mm ²]	2,5	2,5	2,5
Rated current [A]	24	24	24
Short-time withstand current [A]	300	300	300
Rated voltage U _i [V]	250~; 250 =	250~; 250 =	250~; 250 =
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	4 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 4	0,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 2,5	0,5 ÷ 2,5
Stripping length [mm]	7	7	7
Tightening torque [Nm]	0,5	0,5	0,5
Tools	Flat screwdriver 0,5 x 3		
Assembly method (on DIN rail)	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points	4	6	6
Number of levels	3	3	3
End cover plate required	YES	YES	YES
Testing	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)	5,3 / 47,5 / 62	5,3 / 47,5 / 78,5	5,3 / 47,5 / 78,5
Weight [g]	12	18	20
Packing [pcs]	25	25	25
Order number	A 123 210	A 123 219	A 123 217

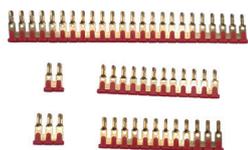


3 MULTILEVEL TERMINAL BLOCKS

3.2.1 Accessories

		EURO D	EURO Z	EURO W
Plug-in-bridge 2 poles		C 431 117 (yellow)	C 421 132 (blue) C 421 162 (red)	C 421 132 (blue) C 421 162 (red)
Plug-in-bridge 3 poles		C 431 217 (yellow)	C 421 133 (blue) C 421 163 (red)	C 421 133 (blue) C 421 163 (red)
Plug-in-bridge 12 poles		-	C 425 137 (blue) C 425 167 (red)	C 425 137 (blue) C 425 167 (red)
Plug-in-bridge 24 poles		C 438 017 (yellow)	-	-
Cover plate		B 133 211	B 123 213	B 723 213
Marking multi-card [1pc = 50 tags]	With printing	G 230 009	G 230 000	G 230 000
	Without printing	G 240 009	G 240 000	G 240 000
Cover label		G 410 020	-	-

The printing can be prepared according to customer request. You can enter it via online ordering system on our website or by e-mail. The printing is limited only to the size of the tag.



Plug-in-bridges



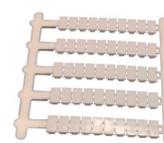
End cover plate EURO W



End cover plate EURO Z



Cover label



Marking multi-card

Range RSP, RSP A 4

RSP and RSP 4 terminal blocks allows the insertion of a fuse element into the circuit – a tube protective fuse that is inserted into the housing between the conductive contacts. The range of possible connectible conductors is from 0,5 mm² to 6 mm². The fuse terminal blocks of all offered types can be classified into the circuits either with alternating, as well as direct voltage.



Design: the RSP fuse terminal line is fitted with steel brackets and screws with galvanised coating. For the installation can be used flat screwdriver or Phillips screwdriver. The terminals can be clamped onto TH 15, TH 35 x 7,5, TH 35 x 15, and G 32 rails. The recommended position for installation of horizontally mounted terminals is to have the fuse rail swinging downwards. The material of the insulation housing is polyamide PA 6, V0 according to UL 94, halogen-free. The conductive part is made of brass, galvanized tin, the contact part is tin-plated bronze.



Range 1106-F

The 1106-F terminals are suitable for 5x20 mm tube current fuses and they are used for connecting electric circuits with copper conductors where it is not possible to apply the TH load-bearing bar and the RSP 4 terminal block (such as small installation boxes, lights etc.). Available polarity 1 to 5 poles. Each terminal is delivered with a separate fuse holder.



Design: One-pole version of the fuse terminal is equipped with a dovetail slot on the side of the insulation housing, which allows to connect it to another, one or more-pole terminal. This way you can assemble a terminal block with multiple fuse holders. The insulation material of the terminal is polyamide PA 6 with transparent colour, V2 according to UL 94, the insulation material of the fuse holder is polyamide PA 6.6 of black colour, V2 according to UL 94. The electroconductive parts of the terminal are brass, galvanically nickelled, and the electroconductive parts of the fuse holder are made of stainless steel.

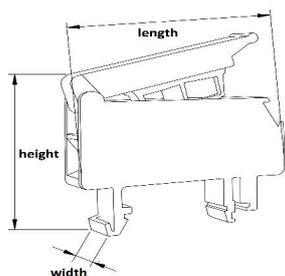
Disconnecter PMX

The disconnecter is suitable for cylindrical plug cartridges with dimensions of 10x38 mm. It is structurally designed for connecting and disconnecting circuits under load. It protects equipment against short circuit and overload. It is easily installed on the DIN Rail TH 35 using a fastening mechanism. The disconnecter provides high level of safety during control – the conducting components are protected against hazardous touch, even in the “open” position. It is possible to lock the open function of the fuse disconnecter.



Design: size of a classic modular design (17,5 x 58 x 88,8 mm), available in one or three-pole versions, two-pole and 1+N and 3+N versions available upon request. The used materials are compliant with UL regulations. The fuse switch disconnecter can be sealed.

4 FUSE TERMINAL BLOCKS

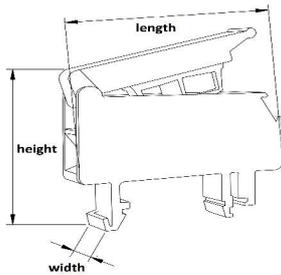


		RSP 4	RSP 4 LED/250V	RSP 4 LED/24-48V
Rated cross-section [mm ²]		4	4	4
Rated current [A]		6,3	6,3	6,3
Short-time withstand current [A]		1 500	1 500	1 500
Rated voltage U _i [V]		400	400	400
Rated impulse withstand voltage U _{imp} [V]		4 000	4 000	4 000
Rated voltage or operating voltage range [V]		250	250	48
Conductor cross section mm ²	Solid conductor	0,5 ÷ 6	0,5 ÷ 6	0,5 ÷ 6
	Stranded conductor	0,5 ÷ 4	0,5 ÷ 4	0,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 4	0,5 ÷ 4	0,5 ÷ 4
	2 x Solid conductor, stranded conductor, finely stranded	0,5 ÷ 1,5	0,5 ÷ 1,5	0,5 ÷ 1,5
	3 x Solid conductor, stranded conductor, finely stranded	0,5 ÷ 1	0,5 ÷ 1	0,5 ÷ 1
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]		4	4	4
Stripping length [mm]		9,5	9,5	9,5
Tightening torque [Nm]		0,5	0,5	0,5
Tools		Screwdriver PH 0	Screwdriver PH 0	Screwdriver PH 0
Assembly method (on DIN rail)		TH 15, TH 35, G 32	TH 15, TH 35, G 32	TH 15, TH 35, G 32
Pollution degree		2	2	2
IP code		20 / 10 ¹	20 / 10 ¹	20 / 10 ¹
Operating temperature [°C]		-40 ÷ +55	-40 ÷ +55	-40 ÷ +55
Number of clamping points per level		2	2	2
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Maximum scattered power P _{vk} [W]	Independently arrangement	2 W / 6,3 A	2 W / 6,3 A	2 W / 6,3 A
	Combined arrangement	1 W / 6,3 A	1 W / 6,3 A	1 W / 6,3 A
Size of fuse-link		F, M, T average 5 x 20	F, M, T average 5 x 20	F, M, T average 5 x 20
Testing		ČSN EN 60947-7-3	ČSN EN 60947-7-3	ČSN EN 60947-7-3
Dimensions [mm] (width / height / length)		9 / 46,3 / 55	9 / 46,3 / 55	9 / 46,3 / 55
Weight [g]		15	17	16
Packing [pcs]		25	25	25
Order number		A 631 210	A 681 210	A 691 210

¹ The protection class of the fuse terminals is IP 20. In case of open fuse holder, the protection is IP 10.



4 FUSE TERMINAL BLOCKS



	RSP A 4	1106-F (1-5 poles)	PMX 10 x 38	
Rated cross-section [mm ²]	4	2,5	10	
Rated current [A]	12,5	10	32	
Short-time withstand current [A]	1 500	300	-	
Rated voltage U _i [V]	500	400	690 / 750	
Rated impulse withstand voltage U _{imp} [V]	4 000	2 500	-	
Rated voltage or operating voltage range [V]	500	400	690 / 750	
Conductor cross section [mm ²]	Solid conductor [mm ²]	0,5 ÷ 6	1 ÷ 2,5	0,75 ÷ 16
	Stranded conductor	0,5 ÷ 4	-	-
	Finely stranded conductor	0,5 ÷ 4	1 ÷ 2,5	0,75 ÷ 16
	2 x Solid conductor, stranded conductor, finely stranded	0,5 ÷ 1,5	-	-
	3 x Solid conductor, stranded conductor, finely stranded	0,5 ÷ 1	-	-
Maximum conductor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	4	2,5	16	
Tightening torque [Nm]	0,5	0,5	2,5	
Tools	Screwdriver PH 0	Flat screwdriver 0,5 x 3	Screwdriver PH 1	
Assembly method (on DIN rail)	TH 15, TH 35, G32	In the box / on the plate	TH 35	
Pollution degree	2	2	-	
IP code	20 / 10 ¹	20	20	
Operating temperature [°C]	-40 ÷ +55	-5 ÷ +100	-20 ÷ +70	
Number of clamping points per level	2	By type	2	
Number of levels	1	1	1	
End cover plate required	NO	NO	NO	
Maximum scattered power P _{vk} [W]	2	-	3	
Size of fuse-link	F, T average 6,3 x 32	F, M, T average 5 x 20	Cylindrical fuse 10 x 38	
Testing	ČSN EN 60947-7-3	EN 60598-1	IEC EN 60269	
Dimensions [mm] (width / height / length)	10,5 / 46 / 68,5	By type	17,5 / 58 / 88,8	
Weight [g]	21	Behind the order numbers	65	
Packing [pcs]	10	1	1	
Order number	1p.	A 631 140	J 453 000 (6g)	On request
	2p.	-	J 453 100 (8g)	-
	3p.	-	J 453 200 (10g)	On request
	4p.	-	J 453 300 (13g)	-
	5p.	-	J 453 400 (15g)	-

¹ The protection class of the fuse terminals is IP 20. In case of open fuse holder, the protection is IP 10.



4 FUSE TERMINAL BLOCKS

4.1 Accessories

	RSP 4	RSP 4 LED/250V	RSP 4 LED/24-48V	RSP A 4	
Plug-in-bridge type RSP 4	C 438 911	C 438 911	C 438 911	C 439 911	
Ending of plug-in-bridge	C 431 015	C 431 015	C 431 015	C 431 015	
Marking of terminals [1 pc = 1 label]	Marking strip not pre-cut without printing	G 120 000 ¹			
	Marking strip not pre-cut with printing [1 pc = 1 label]	G 110 040	G 110 040	G 110 040	-
	Marking strip pre-cut without printing [1 pc = 1 label]	G 140 040 (on side)	G 140 040 (on side)	G 140 040 (on side)	G 140 040 (on the holder)
	Marking strip pre-cut without printing [1 pc = 1 label]	G 140 032 (on the holder)	G 140 032 (on the holder)	G 140 032 (on the holder)	-
	Marking strip pre-cut with printing [1 pc = 1 label]	G 130 040 (on side)	G 130 040 (on side)	G 130 040 (on side)	G 130 040 (on the holder)
	Marking strip pre-cut with printing [1 pc = 1 label]	G 130 032 (on the holder)	G 130 032 (on the holder)	G 130 032 (on the holder)	-
Marking tag 5mm pre-cut without printing	G 160 096				
Marking tag 5mm pre-cut with printing	G 170 096				

The printing can be prepared according to the customer request. You can enter it via online ordering system on our website or by e-mail. The printing is limited only to the size of the label. More information on marking system are available in chapter 1.1.4.



Plug-in-bridge



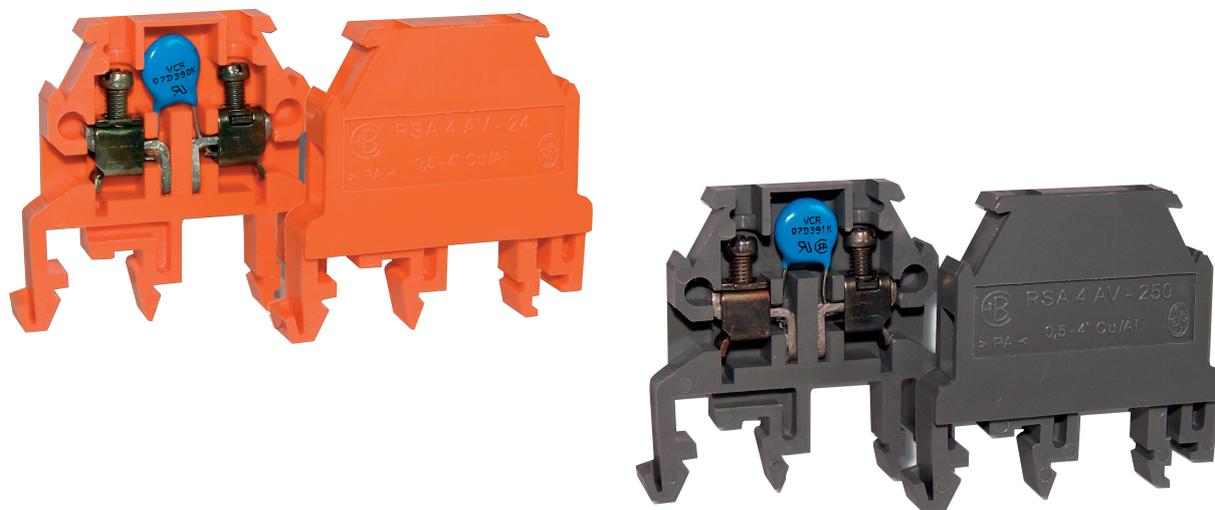
Pre-cut marking strip without printing



Profile ending

¹ 1 pc = 20 strips of 50 cm

Varistor terminal blocks are designed to limit electric circuits load peaks formed on the switchgear, to protect circuits from pulse overvoltage, to limit overvoltage surges on phase voltage, or to limit the sources of disturbing voltage on closing contacts. Varistor terminals are not the standard protection from lightning current overvoltage. The terminal includes a side barrier and the terminal is thus delivered encapsulated. Protection degree IP 20.



Design

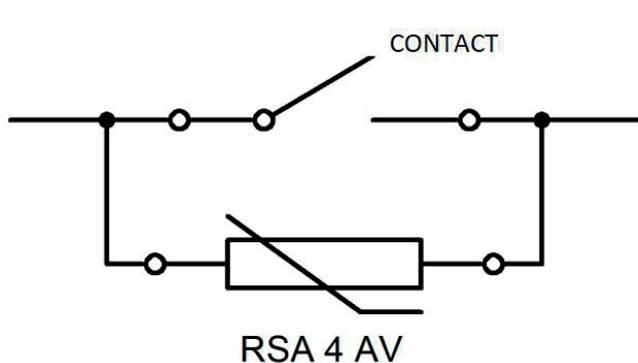
To ensure reliable clamping of conductors, all types include a heat-treated steel clamp with galvanic finishing. The screws in the terminals have a combined head – you can use a flat screwdriver or cross-head PH screwdriver. The screws are steel made with galvanic finishing. The supplier guarantees that the screw will not get damaged, even when tightened multiple times, provided that the recommended tools and torque are used. Insulating bushing material: PA 6 polyamide, V0 flammability acc. to UL 94, halogen-free. The RSA 4 AV -250 terminal insulating bushing is grey; RSA 4 AV -24 is orange.

Example of using



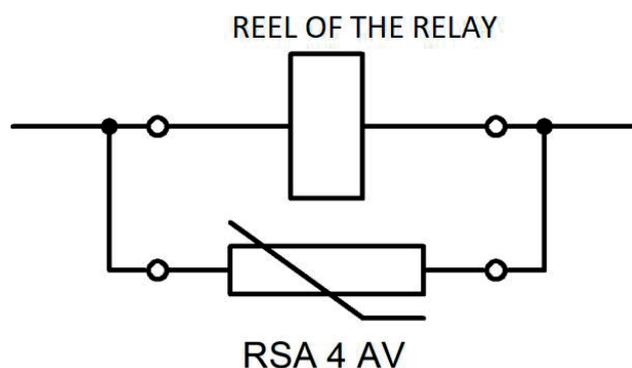
RSA 4 AV

Basic scheme of the terminal



RSA 4 AV

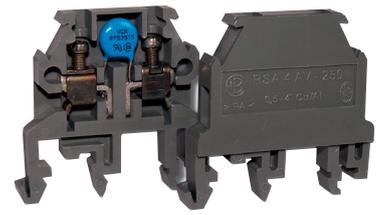
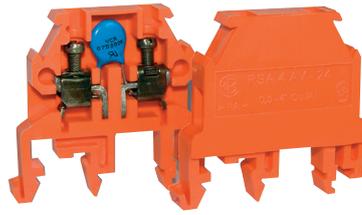
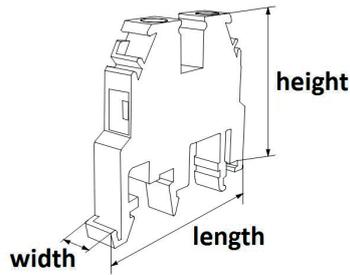
Example of RSA 4 AV connection in application of switching off voltage spikes.



RSA 4 AV

Example of RSA 4 AV connection in relay contactor protection application.

5 VARISTOR TERMINALS



RSA 4 AV-24

RSA 4 AV-250

Rated cross-section [mm ²]	4	4	
Short-time withstand current [A]	250	1 200	
Rated voltage U _i [V]	24~; 24 =	230~; 230 =	
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 6	
	Finely stranded conductor	0,5 ÷ 4	
Maximum konduktor connection cross-section, finely stranded with wire-end ferrules with plastic collar [mm ²]	4	4	
Stripping length [mm]	9,5	9,5	
Tightening torque [Nm]	0,5	0,5	
Tools	Screwdriver PH 0 / 0,5 x 3	Screwdriver PH 0 / 0,5 x 3	
Assembly method (on DIN rail)	TH 15, TH 35, G 32	TH 15, TH 35, G 32	
Pollution degree	2	2	
IP code	20	20	
Operating temperature [°C]	-40 ÷ +55	-40 ÷ +55	
Maximum permitted operating voltage [V]	35	250	
Varistor voltage during 1 mA [V]	56	390	
The maximum peak value of disturbance voltage [V]	93	645	
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	
Dimensions [mm] (width / height / length)	7,8 / 39 / 41,5	7,8 / 39 / 41,5	
Weight [g]	9	10	
Packing [pcs]	20	20	
Order number	Terminal with varistor	S 123 211	S 113 111
	Terminal without varistor	S 123 213	S 113 113
	Separate varistor	S 223 011	S 213 011

5.1 Accessories

	Strip not pre-cut without printing	Strip pre-cut with printing	Strip pre-cut without printing	Strip pre-cut with printing	Marking profile 5 mm without printing	Marking profile 5 mm with printing
Order number [1pc = 1label]	G 120 000 ¹	G 110 030	G 140 027	G 130 027	G 160 096	G 170 096

The printing can be prepared according to the customer request. You can enter it via online ordering system on our website or by e-mail. For more details, see chapter 1.1.4 Marking system.



Marking strip pre-cut without printing



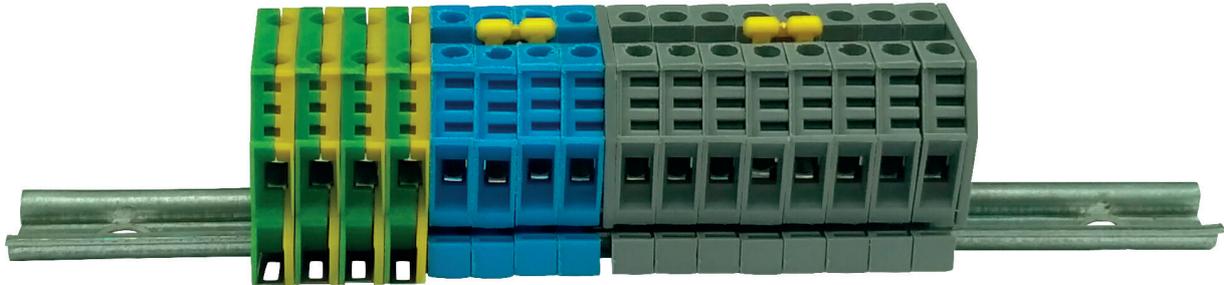
Marking strip pre-cut with printing

¹ 1 pc = 20 strips of 50 cm



The MINI clamps are offered in the EURO MINI and EURO MINI PE series.

The EURO MINI clamps are designed for long-term removable coupling of several conductors. They are used for connecting extra low and low voltage electric circuits with firm and flexible copper conductors with cross-section from 0,5 to 6 mm². The PE version is designed for connecting protective conductors in TN-C and TN-S systems. Flexible conductors do not require ferrules at the end. They are designed to be used wherever there are space-saving demands. The clamps can be fastened to TH 15 x 5,5 steel supporting rails. The clamps can be bonded using plug-in-bridges with up to 24 poles to be cut according to the need.

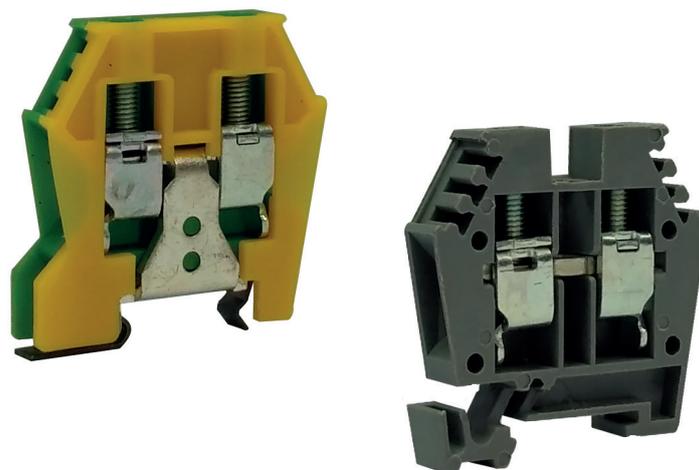


Design

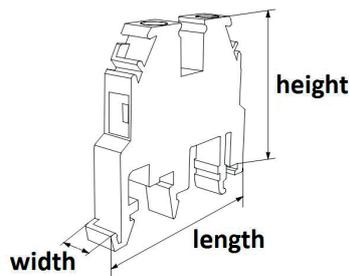
The mini terminal blocks are equipped with steel clamps and screws with galvanic finishing. The clamps can be bonded using plug-in-bridge with 2, 3 and 24 poles to be cut according to the need. The insulating bushing is made of PA 6 polyamide, V0 flammability acc. to UL 94, halogen-free. The PE version is green and yellow colours.

The conductive coupling of the protective conductor to the TH steel supporting rail is provided using ratchet mounting to the rail, which accelerates installation and disassembly of the EURO MINI PE 4 ground terminals.

The terminals can be closed using the EURO MINI end cup, providing IP 20 protection even when used separately. To fix the terminals on the TH 15 rail, we recommend to use the end clamp from the EURO MINI product series. The EURO MINI terminals are tested in compliance with EN 60947-7-1 and EN 60947-7-2.



6 MINI CLAMPS



EURO MINI 4

EURO MINI PE 4

Rated cross section [mm ²]	4	4
Rated current [A]	32	-
Short-time withstand current [A]	480	480
Rated voltage U _i [V]	400	-
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 6
	Flexible stranded conductor	0,5 ÷ 4
Stripping length [mm]	10	10
Tightening torque [Nm]	0,6	0,6
Tools	Screwdriver 0,5 x 3	Screwdriver 0,5 x 3
Assembly method (on DIN rail)	TH 15	TH 15
IP code	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	2	2
Number of levels	1	1
End cover plate required	YES	NO
Testing	EN 60947-7-1	EN 60947-7-2
Dimensions [mm] (width / height / length)	6 / 28 / 32	6 / 28 / 32
Weight [g]	6	9
Packing [pcs]	100	20
Order number		A 160 130
		A 160 210
		-
		A 560 110

6.1 Accessories

Plug-in-bridge 2 poles	C 431 117
Plug-in-bridge 3 poles	C 431 217
Plug-in-bridge 24 poles	C 438 017
End cover plate EURO MINI (grey)	B 163 211
End clamp EURO MINI L15 (grey)	F 120 210
Marking multi-card EURO MINI (with printing) [1 pc = 50 tags]	G 230 000
Marking multi-card EURO MINI (without printing) [1 pc = 50 tags]	G 240 000

The printing can be prepared according to the customer request. You can enter it via online ordering system on our website or by e-mail. The printing is limited only to the size of the tag. More information on marking system are available in chapter 1.1.4.



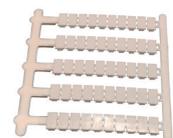
Plug-in-bridge



End cover plate EURO MINI



End clamp EURO MINI L 15



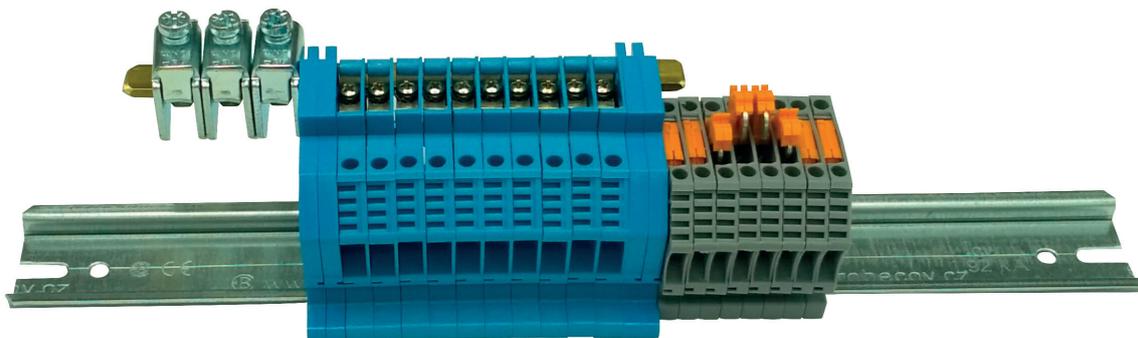
Marking multi-card



7 DISCONNECTING TERMINALS FOR NEUTRAL CONDUCTORS

Disconnecting terminals are offered in the EURO T2 series. They are used in industrial electrical installations as parts of control, switching or measuring equipment and distributors. They are designed for disconnecting electric circuits from power supply for the purpose of detecting effects, during measurement, or as another safety component when working on the circuit.

Terminals for neutral conductors are offered in the EURO N4 series. They are used in industrial electrical installations for connecting neutral conductors. Terminal blocks are connected to neutral conductors through a copper busbar. Conductors with a larger cross-section can be connected to the busbar (feed) using BKS clamps. This solution provides an easy disconnection of the neutral conductor from the busbar without having to release the conductor itself.



Design

To ensure reliable clamping of conductors, both types include a heat-treated steel clamp with galvanic finishing. The screws in the terminals have a flat slot. The screws are steel made with galvanic finishing. Insulating bushing material: PA 6 polyamide, V0 flammability acc. to UL 94, halogen-free. The conductive part is made of factory-finished current-carrying brass.

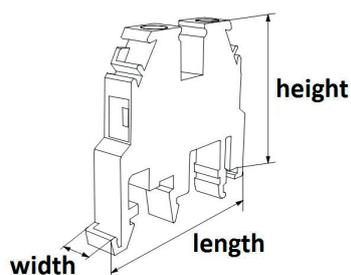


Main parameters

- Operating temperature $-20 \div +55$
- Insulating body: Polyamide PA 6, flammability V0 according to UL94, halogen-free
- Clamping on the DIN Rail TH 35
- Colour design: EURO T2,5 grey, EURO N4 blue
- Terminals are tested according to the standard: IEC 60947-7-1



7 DISCONNECTING TERMINALS FOR NEUTRAL CONDUCTORS



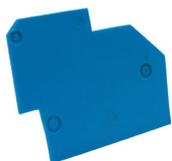
	EURO T2,5	EURO N4
Rated cross section [mm ²]	2,5	4
Rated current [A] / Max. value [A/mm ²]	16 / -	- / 24
Short-time withstand current [A]	300	480
Rated voltage U _i [V]	800~; 800 =	250~; 250 =
Rated impulse withstand voltage U _{imp} [V]	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 2,5
Stripping length [mm]	10	10
Tightening torque [Nm]	0,5	0,6
Tools	Screwdriver 0,5 x 3	Screwdriver 0,5 x 3
Assembly method (on the DIN rail)	TH 35	TH 35
IP code	20	10
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	2	1
Number of levels	1	1
End cover plate required	YES	YES
Testing	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)	5,3 / 35 / 52	6 / 42 / 49
Weight [g]	9	16
Packing [pcs]	50	50
Order number	A 923 210	A 133 134

7.1 Accessories

	EURO T2,5	EURO N4
Cover plate	B 123 211 (grey)	B 133 131 (blue)
Marking multi-card EURO (with printing)	G 250 000 (EURO T card 20 pcs of tags)	G 230 009 (EURO D, N card 50 pcs of tags)
Marking multi-card EURO (without printing)	G 260 000 (EURO T card 20 pcs of tags)	G 240 009 (EURO D, N card 50 pcs of tags)
MS Rail 10 x 3 mm (length 100 cm)	-	C 331 018
MS Rail support (blue version)	-	B 133 136



Cover plate EURO T2,5



Cover plate EURO N4



Marking multi-card
EURO T2,5



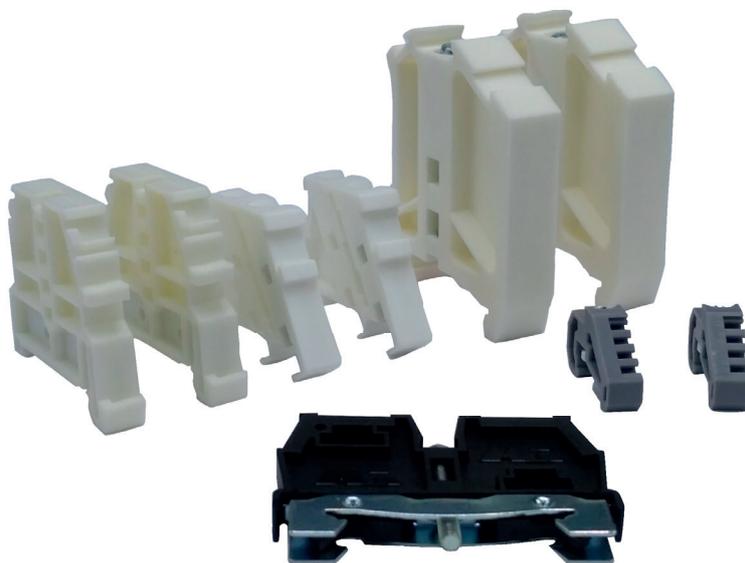
MS Rail



MS Rail support



End clamps provide efficient locking of sets of terminal blocks or other devices thanks to the screw or no-screw mounting on a TH rail. According to the type, they are designed to be used for TH 35 or TH 15 rails, as well as for all terminals in our range. For larger terminals (such as RSA 35 A and RSA 70 A), we recommend to use the RSA L 35-2 end clamp. End clamps are made of PA 6 polyamide, V0 flammability acc. to UL 94.



Design

The RSA and EURO series, except for RSA L35-B, are offered with screw mounting onto a TH rail.

The RSA L35-B type is equipped with ratchet mounting onto the rail: it is simply clamped onto the TH rail without the need of screws or any tools. To change the position, do not move the clamp along the rail but take it off and clamp it on again (to take it off, use a flat screwdriver, e.g. 0,5 x 3,0 mm). The Euro L35 clamps are equipped with a metal jaw that fixates the clamp on the rail after the screw is tightened.

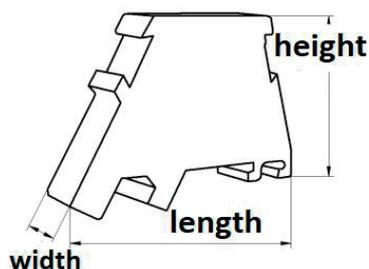
Both RSA and EURO clamps are made of PA polyamide, V0 flammability acc. to UL 94, halogen-free.



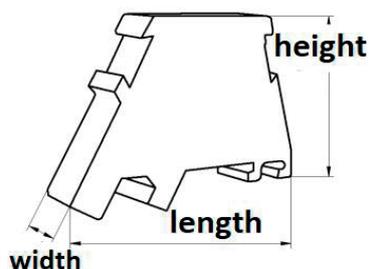
Main parameters

- Operating temperature $-20 \div +105^{\circ}\text{C}$ (EURO L35, EURO MINI L15 $-20 \div +55^{\circ}\text{C}$)
- Insulating body: Polyamide PA, flammability V0 according to UL 94, halogen-free
- Pollution degree: 2 (EURO L35 – class 3)
- Clamping on DIN Rails TH 15, TH 35 (according to type)
- Wide range of colour versions

8 END CLAMPS

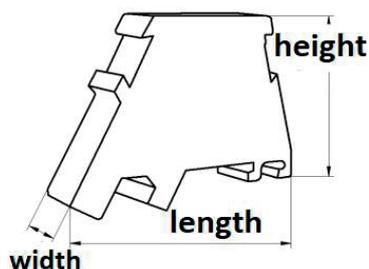


	RSA L15	RSA L35	RSA L35-2	
Tightening torque [Nm]	0,5	0,5	0,8	
Tools	Screwdriver PH 1 / 0,5 x 3	Screwdriver PH 1 / 0,5 x 3	Screwdriver PH 2 / 1 x 5,5	
Assembly method (on DIN rail)	TH 15	TH 35	TH 35	
Pollution degree	2	2	2	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105	
Suitable for terminal	RSA 2,5 A ÷ RSA 16 A, EURO MINI	RSA 2,5 A ÷ RSA 16 A	RSA 16 A ÷ RSA 70 A	
Dimensions [mm] (width / height / length)	9 / 33,5 / 46	9 / 33,5 / 46	12 / 62 / 53	
Weight [g]	7	7	25	
Packing [pcs]	50	50	10	
Order number	White	F 121 110	F 111 110	F 141 110
	Light blue	F 121 120	F 111 120	-
	Dark blue	F 121 130	F 111 130	-
	Beige	F 121 140	F 111 140	-
	Brown	F 121 150	F 111 150	-
	Red	F 121 160	F 111 160	-
	Orange	F 121 170	F 111 170	-
	Black	F 121 180	F 111 180	F 141 180
	Purple	F 121 190	F 111 190	-
	Grey	F 121 210	F 111 210	F 141 210



	EURO L35	EURO MINI L15	
Tightening torque [Nm]	0,8	0,5	
Tools	Screwdriver PH 1 / 1 x 5,5	Screwdriver 0,5 x 3	
Assembly method (on DIN rail)	TH 35	TH 15	
Pollution degree	3	2	
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	
Suitable for terminal	RSA 2,5 A ÷ RSA 35 A	EURO MINI	
Dimensions [mm] (width / height / length)	6 / 36 / 56	7 / 13 / 25	
Weight [g]	12	2	
Packing [pcs]	50	100	
Order number	Black	F 142 180	-
	Grey	-	F 120 210



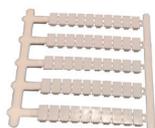


	RSA L35-A	RSA L35-B
Tightening torque [Nm]	0,5	-
Tolls	Screwdriver PH 1 / 0,5 x 3	SCREWLESS
Assembly method (on DIN rail)	TH 35	TH 35
Pollution degree	2	2
Operating temperature [°C]	-20 ÷ +105	-20 ÷ +105
Suitable for terminal	RSA 2,5 A ÷ RSA 16 A	RSA 2,5 A ÷ RSA 16 A
Dimensions [mm] (width / height / length)	8 / 35,7 / 53,5	8 / 34,7 / 46,5
Weight [g]	10	7
Packing [pcs]	50	50
Order number	White	F 401 110
	Black	F 401 180
	Grey	F 401 210

8.1 Accessories

Type	Using	Order number
Marking multi-card EURO MINI (with printing) [1 pc = 50 tags]	EURO MINI L15	G 230 000
Marking multi-card (EURO MINI (without printing) [1 pc = 50 tags]	EURO MINI L15	G 240 000
Marking strip not pre-cut without printing	RSA L15 / L35 / L35-2 / L35-A / L35-B	G 120 000 ¹
Label carrier sliding	RSA L35-A / RSA L35-B	G 320 000
Marking strip 5 mm pre-cut without printing	RSA L15 / L35 / L35-2 / L35-A / L35-B	G 160 096
Marking strip 5 mm pre-cut with printing	RSA L15 / L35 / L35-2 / L35-A / L35-B	G 170 096
Cover label	EURO L35	G 410 020

The printing can be prepared according to the customer request. You can enter it via online ordering system on our website or by e-mail. For more details, see chapter 1.1.4 Marking system.



Marking multi-card



Not pre-cut marking strip without printing



Label carrier sliding *

¹ 1 pc = 20 strips of 50 cm

*The length of the label carrier is 30 mm, so we can place up maximum 6 pieces of pre-cut strips

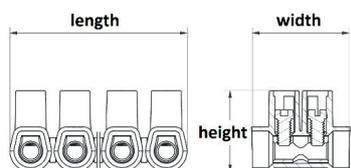


9 CONNECTORS FOR BOXES

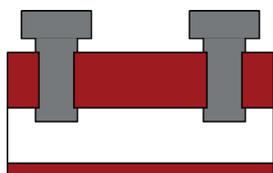
9.1 Multilevel MT

9.1.1 Serie MT 100

The twelve-poles terminal boards have a body made of black PA 6 polyamide modified against burning, in which 12 brass cases are inserted. The terminal boards are suitable for conductors with a solid or stranded core (for finely stranded conductors it is recommended to use ferrules). The holes in the terminal board body allow to install it on a plate. The individual poles of the terminal board can be easily separated by snapping off without using a tool.



	MT 104N	MT 106N	MT 110N
Rated cross-section [mm ²]	2,5	4	6
Rated current [A]	24	41	57
Rated voltage U _i [V]	450	450	450
Conductor cross section [mm ²]	Solid conductor	2,5 ÷ 6	4 ÷ 10
	Finely stranded conductor	1 ÷ 2,5	2,5 ÷ 4
Tightening torque [Nm]	0,4	0,5	0,8
Tool / screw	Flat screwdriver / M 2,6	Flat screwdriver / M 3	Flat screwdriver / M 3,5
Assembly method	Into the box / on the plate		
IP code	20	20	20
Operating temperature [°C]	< 110	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	EN 60998	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	17 / 14,75 / 95,5	19,35 / 15,6 / 118,1	20,8 / 18,1 / 141,1
Weight [g]	19	26	40
Packing [pcs] (12-poles)	1	1	1
Order number [1pc = 12 poles]	J 515 101	J 515 102	J 515 103

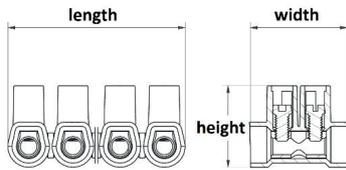


Main parameters

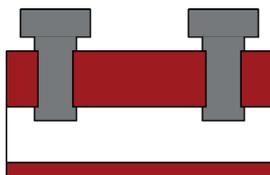
- Operating temperature <110°C
- Conductor cross section: 2,5 ÷ 25 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Finely stranded wires should be provided with a ferrule



9.1.2 Serie MT 100



	MT 116N	MT 135N
Rated cross-section [mm ²]	10	25
Rated current [A]	76	125
Rated voltage U _i [V]	450	450
Conductor cross section [mm ²]	Solid conductor	16 ÷ 35
	Finely stranded conductor	16 ÷ 25
Tightening torque [Nm]	1,2	2
Tool / screw	Flat screwdriver / M 4	Flat screwdriver / M 5
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	23,2 / 21,2 / 159,9	25,8 / 28,05 / 179,3
Weight [g]	62	124
Packing [pcs] (12-poles)	1	1
Order number [1pc = 12 poles]	J 515 104	J 515 105



Main parameters

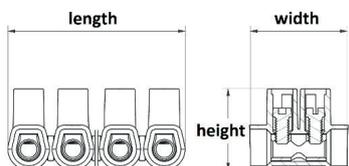
- Operating temperature <110°C
- Conductor cross section: 2,5 ÷ 25 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Finely stranded wires should be provided with a ferrule



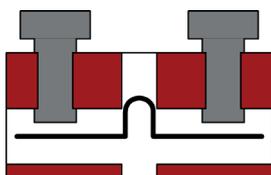
9 CONNECTORS FOR BOXES

9.1.3 Serie MT PH

The twelve-poles terminal boards have a body made of white PA polyamide modified against burning, in which 12 brass cases are inserted. The terminal boards are suitable for conductors with a solid or stranded core (in this case for finely stranded conductors it is not recommended to use ferrules). There is a protective plate under the screw that prevents direct pressure of the screw on the conductor and its deformation. The holes in the terminal board body allow to install it on a plate. The individual poles of the terminal board can be easily separated by snapping off without using a tool.



	MT 1804 PH	MT 1104 PH	MT 1106 PH
Rated cross-section [mm ²]	2,5	2,5	4
Rated current [A]	24	24	32
Rated voltage U _i [V]	450	450	750
Conductor cross section [mm ²]	Solid conductor	0,75 ÷ 2,5	1 ÷ 4
	Finely stranded conductor	0,75 ÷ 2,5	1 ÷ 4
Tightening torque [Nm]	0,5	0,5	0,5
Tool / screw	Flat screwdriver / M 3		
Assembly method	Into the box / on the plate		
IP code	20	20	20
Operating temperature [°C]	< 110	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	EN 60998	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	16 / 15 / 95,1	18 / 15 / 94	21 / 16 / 116
Weight [g]	24	24	30
Packing [pcs] (12-poles)	1	1	1
Order number [1pc = 12 poles]	J 515 201	J 515 202	J 515 203

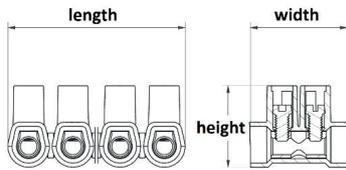


Main parameters

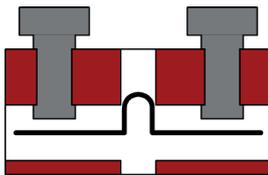
- Operating temperature <110°C
- Conductor cross section: 2,5 ÷ 10 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Finely stranded conductor could be used WITHOUT a ferrule
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9.1.3 Serie MT PH



	MT 1110 PH	MT 1116 PH
Rated cross-section [mm ²]	6	10
Rated current [A]	41	57
Rated voltage U _i [V]	750	750
Conductor cross section [mm ²]	Solid conductor	4 ÷ 10
	Finely stranded conductor	4 ÷ 10
Tightening torque [Nm]	0,8	1,2
Tool / screw	Flat screwdriver / M 3	Flat screwdriver / M 4
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	23 / 18 / 140	26 / 22,5 / 159
Weight [g]	55	91
Packing [pcs] (12-poles)	1	1
Order number [1pc = 12 poles]	J 515 204	J 515 205



Main parameters

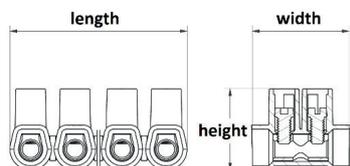
- Operating temperature <110°C
- Conductor cross section: 2,5 ÷ 10 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Finely stranded conductor can be used WITHOUT a ferrule
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



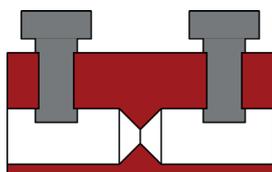
9 CONNECTORS FOR BOXES

9.1.4 Serie MT TS

The twelve-poles terminal boards have a body made of white PA 6 polyamide modified against burning, in which 12 brass cases are inserted. The terminal boards are suitable for conductors with a solid or stranded core (for finely stranded conductors it is recommended to use ferrules). The internal structure of the terminal board allows connecting copper and aluminium conductors. The holes in the terminal board body allow to install it on a plate. The individual poles of the terminal board can be easily separated by snapping off without using a tool.



	MT 1804 TS	MT 1104 TS	MT 1106 TS
Rated cross-section [mm ²]	2,5	4	6
Rated current [A]	24	32	41
Rated voltage U _i [V]	450	450	750
Conductor cross section [mm ²]	Solid conductor	0,75 ÷ 2,5	1 ÷ 6
	Finely stranded conductor	0,75 ÷ 2,5	0,75 ÷ 4
Tightening torque [Nm]	0,5	0,5	0,5
Tool / screw	Flat screwdriver / M 3		
Assembly method	Into the box / on the plate		
IP code	20	20	20
Operating temperature [°C]	< 110	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	EN 60998	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	16 / 15 / 95,1	18 / 15 / 94	21 / 16 / 116
Weight [g]	24	24	30
Packing [pcs] (12-poles)	1	1	1
Order number [1pc = 12 poles]	J 515 301	J 515 302	J 515 303

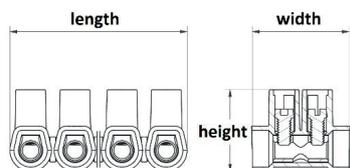


Main parameters

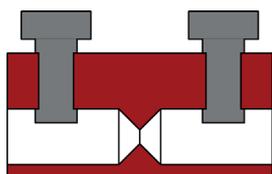
- Operating temperature < 110°C
- Conductor cross section: 2,5 ÷ 16 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Finely stranded wires should be provided with a ferrule
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Terminals are suitable for connecting copper and aluminium conductors
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9.1.4 Serie MT TS



	MT 1110 TS	MT 1116 TS
Rated cross-section [mm ²]	10	16
Rated current [A]	57	76
Rated voltage U _i [V]	750	750
Conductor cross section [mm ²]	Solid conductor	4 ÷ 16
	Finely stranded conductor	4 ÷ 10
Tightening torque [Nm]	0,8	1,2
Tool / screw	Flat screwdriver / M 3,5	Flat screwdriver / M 4
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 110	< 110
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	23 / 18 / 140	26 / 22,5 / 159
Weight [g]	55	91
Packing [pcs] (12-poles)	1	1
Order number [1pc = 12 poles]	J 515 304	J 515 305



Main parameters

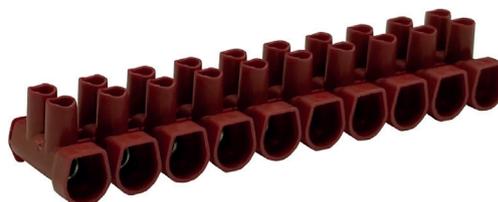
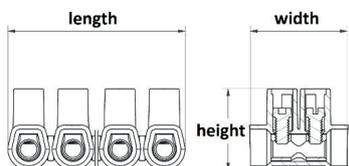
- Operating temperature < 110°C
- Conductor cross section: 2,5 ÷ 16 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Finely stranded wires should be provided with a ferrule
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- Terminals are suitable for connecting copper and aluminium conductors
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9 CONNECTORS FOR BOXES

9.1.5 Serie MT PRO

The ten-poles terminal boards have a body made of red PA 6 polyamide modified against burning, in which 10 brass cases are inserted. Thanks to the larger diameter of the orifice, it is possible to attach several conductors. The terminal boards are suitable for conductors with a solid or stranded core (for finely stranded conductors it is recommended to use ferrules). The back removable cover provides increased safety at work. The holes in the terminal board body allow to install it on a plate. The individual poles of the terminal board can be easily separated by snapping off without using a tool.



	MT PRO 10	MT PRO 16
Rated cross-section [mm ²]	10	16
Rated current [A]	57	76
Rated voltage U _i [V]	450	450
Conductor cross section [mm ²]	Solid conductor	4 ÷ 16
	Finely stranded conductor	4 ÷ 10
Tightening torque [Nm]	0,8	1,2
Tool / screw	Flat screwdriver / M 3,5	Flat screwdriver / M 4
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 110	< 110
Number of clamping points per level	20 (2 for pole)	20 (2 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (length)	119	148
Weight [g]	40	63
Packing [pcs] (10-poles)	1	1
Order number [1pc = 10 poles]	J 441 001	J 441 002



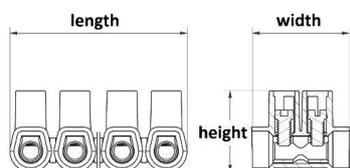
Main parameters

- Operating temperature <110°C
- Conductor cross section: 10 a 16 mm²
- Insulating body: Polyamide PA 6, flammability V2
- Assembly method: Into the box / on the plate
- Finely stranded wires should be provided with a ferrule
- Individual poles can be easily detached without tools
- Conductive part is from brass with Ni surface finish
- The possibility of connecting more wires or easier connection of the wires provided by ferrule
- Rear cap for increased work safety

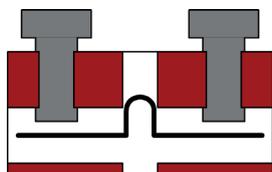


9.1.6 Serie MTB

The twelve-poles terminal boards have a body made of yellow PA 6 polyamide modified against burning, in which 12 brass cases are inserted. This type of appliance screw terminal boards with a square case has a stronger plastic case. The terminal boards are suitable for conductors with a solid or stranded core (for finely stranded conductors it is not recommended to use ferrules). One conductor can be attached under one screw. The holes in the terminal board body allow to install it on a plate when the version with the adapter is used, the terminal board also can be clamping on the DIN rail.



	MTB 4	MTB 4 DIN
Rated cross-section [mm ²]	4	4
Rated current [A]	32	32
Rated voltage U _i [V]	690	690
Conductor cross section [mm ²]	Solid conductor	0,75 ÷ 4
	Finely stranded conductor	0,75 ÷ 4
Tightening torque [Nm]	0,8	0,8
Tools	Flat screwdriver	Flat screwdriver
Assembly method	Into the box / on the plate	TH 35
IP code	20	20
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100
Number of clamping points per level	24 (2 for pole)	24 (2 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	IEC 60998-2-1	IEC 60998-2-1
Dimensions [mm] (width / height / length)	22 / 20 / 119	22 / 35 / 119
Weight [g]	55	60
Packing [pcs] (12-poles)	1	1
Order number [1pc = 12 poles]	UM 124	UM 124 TH



Main parameters

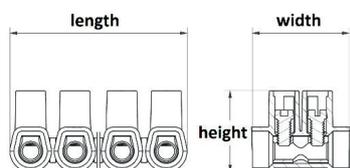
- Operating temperature -25 ÷ +100°C
- Conductor cross section: 4 mm²
- Assembly method: Into the box / on the plate / TH rails
- Insulating body: Polyamide PA 6, flammability V0
- Conductive part from brass with surface finish
- Finely stranded conductor could be used WITHOUT a ferrule
- Reinforced construction



9 CONNECTORS FOR BOXES

9.1.7 Serie MT 500

The ten-poles or single-pole terminal boards have a body made of transparent polycarbonate, modified against burning, in which 10 (or one) brass cases without surface treatment are inserted. The transparent cover allows to check the quality of the conductor connection. The terminal boards are suitable for one or more copper conductors, both with a solid core and a stranded core (for finely stranded conductors it is not recommended to use ferrules). The individual poles of the terminal board can be easily separated by snapping off without using a tool. The case of single-pole types MT 525 and MT 535 is equipped with a latching system for mutual connection.



	MT 502	MT 504	MT 506
Rated cross-section [mm ²]	2,5	4	6
Rated current [A]	24	32	41
Rated voltage U _i [V]	450	450	500
Conductor cross section [mm ²]	Solid conductor	1 ÷ 2,5	2,5 ÷ 6
	Finely stranded conductor	1 ÷ 2,5	1,5 ÷ 4
Tightening torque [Nm]	0,8	1,2	1,2
Tool / screw	Flat screwdriver / M 3,5	Flat screwdriver / M 4	Flat screwdriver / M 4
Assembly method	Into the box		
IP code	20	20	20
Operating temperature [°C]	< 85	< 85	< 85
Number of clamping points per level	10 (1 for pole)	10 (1 for pole)	10 (1 for pole)
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	EN 60998	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	17,6 / 17,6 / 97,5	21 / 19,1 / 111,3	22,5 / 23,4 / 135,9
Weight [g]	22	28	37
Packing [pcs] (10-poles)	1	1	1
Order number [1pc = 10 poles]	J 515 401	J 515 402	J 515 403

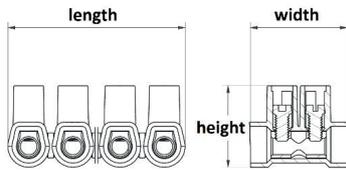


Main parameters

- Operating temperature < 85°C
- Conductor cross section: 2,5 ÷ 35 mm²
- Insulating body: Polycarbonate, flammability V2
- Assembly method: Into the box
- Individual poles can be easily detached without tools
- Conductive part from brass without surface treatment
- Easy to check the quality of the conductor connection thanks to transparent plastic
- Suitable for fast, easy and high-quality wire connections
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9.1.7 Serie MT 500



	MT 510	MT 516
Rated cross-section [mm ²]	10	16
Rated current [A]	57	76
Rated voltage U _i [V]	500	500
Conductor cross section [mm ²]	Solid conductor	6 ÷ 16
	Finely stranded conductor	4 ÷ 10
Tightening torque [Nm]	2	3,5
Tool / screw	Flat screwdriver / M 5	Flat screwdriver / M 8
Assembly method	Into the box	
IP code	20	20
Operating temperature [°C]	< 85	< 85
Number of clamping points per level	10 (1 for pole)	10 (1 for pole)
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	26 / 28,2 / 166,45	31 / 33 / 217,7
Weight [g]	78	156
Packing [pcs] (10-poles)	1	1
Order number [1pc = 10 poles]	J 515 404	J 515 405

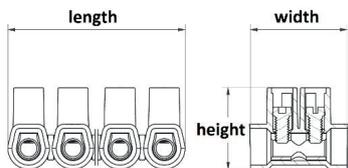
Main parameters

- Operating temperature < 85°C
- Conductor cross section: 2,5 ÷ 35 mm²
- Insulating body: Polycarbonate, flammability V2
- Assembly method: Into the box
- Individual poles can be easily detached without tools
- Conductive part from brass without surface treatment
- Easy to check the quality of the conductor connection thanks to transparent plastic
- Suitable for fast, easy and high-quality wire connections
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9 CONNECTORS FOR BOXES

9.1.7 Serie MT 500



	MT 525	MT 535
Rated cross-section [mm ²]	25	35
Rated current [A]	101	125
Rated voltage U _i [V]	500	500
Conductor cross section [mm ²]	Solid conductor	10 ÷ 25
	Finely stranded conductor	6 ÷ 16
Tightening torque [Nm]	-	-
Tool / screw	Inbus number 5	Inbus number 5
Assembly method	Into the box	
IP code	20	20
Operating temperature [°C]	< 85	< 85
Number of clamping points per level	1	1
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60998	EN 60998
Dimensions [mm] (width / height / length)	38,5 / 40,4 / 22	44,2 / 44 / 24,5
Weight [g]	26	35
Packing [pcs] (1 pole)	1	1
Order number [1pc]	J 515 406	J 515 407



Main parameters

- Operating temperature < 85°C
- Conductor cross section: 2,5 ÷ 35 mm²
- Insulating body: Polycarbonate, flammability V2
- Assembly method: Into the box
- Individual poles can be easily detached without tools
- Conductive part is from brass without surface treatment
- Easy check the quality of the wires connection thanks to transparent plastic
- Suitable for fast, easy and high-quality wire connections
- Test with a hot loop at a temperature of 960°C according to EN 60695-2-11



9.2 Series porcelain blocks PT

The ceramic terminals have a case made of heat-resistant material (white version). They are suitable for conductors with a solid core as well as finely stranded conductors for which it is recommended to use ferrules. One conductor can be attached under one screw. They are made in various sizes of the ceramic cases with a surface-treated brass terminal. Inside the terminal, there is a hole for attaching the terminal



	PT B4	PT B6
Rated cross-section [mm ²]	4	6
Rated current [A]	32	41
Rated voltage U _i [V]	450	450
Conductor cross section [mm ²]	Solid conductor	1,5 ÷ 4
	Finely stranded conductor	1,5 ÷ 4
Tightening torque [Nm]	0,4	0,5
Tool / screw	Flat screwdriver / M 2,6	Flat screwdriver / M 3
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 350	< 350
Number of clamping points per level	2 for pole	2 for pole
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60695-2-11	EN 60695-2-11
Dimensions [mm] (width / height / length) [1/2/3/4 poles]	18 / 17 / [10/21,5/33/44,5]	20 / 17,5 / [11/23,5/36/48,5]
Weight [g] (1 / 2 / 3 / 4 poles)	7,5 / 15 / 22 / 29	9 / 18 / 27 / 35
Packing [pcs]	1	1
Order number	PT B- – 1E (1 pole)	J 515 501
	PT B- – 2E (2 poles)	J 515 502
	PT B- – 3E (3 poles)	J 515 503
	PT B- – 4E (4 poles)	J 515 504



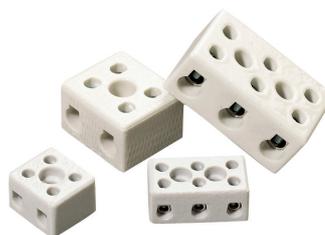
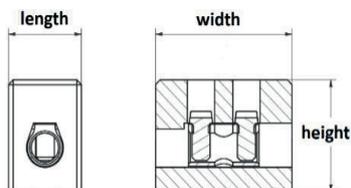
Main parameters

- Operating temperature < 350°C
- Conductor cross section: 4 ÷ 16 mm²
- Insulating body: porcelain, white colour
- Assembly method: Into the box / on the plate
- Conductive with surface treatment Ni
- Finely stranded wires should be provided with a ferrule
- Test with a hot loop at a temperature of 960°C according to EN 60 695-2-11



9 CONNECTORS FOR BOXES

9.2 Series porcelain blocks PT



	PT B10	PT B16
Rated cross-section [mm ²]	10	16
Rated current [A]	57	76
Rated voltage U _i [V]	450	450
Conductor cross section [mm ²]	Solid conductor	4 ÷ 10
	Finely stranded conductor	4 ÷ 10
Tightening torque [Nm]	0,8	1,2
Tool / screw	Flat screwdriver / M 3,5	Flat screwdriver / M 4
Assembly method	Into the box / on the plate	
IP code	20	20
Operating temperature [°C]	< 350	< 350
Number of clamping points per level	2 for pole	2 for pole
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60695-2-11	EN 60695-2-11
Dimensions [mm] (width / height / length) [1/2/3/4 poles]	22 / 18 / [12/26/40/54]	30 / 23 / [16/34/52/70]
Weight [g] (1 / 2 / 3 / 4 poles)	11 / 24 / 37 / 46	25 / 55 / 80 / 105
Packing [pcs]	1	1
Order number	PT B- – 1E (1 pole)	J 515 509
	PT B- – 2E (2 poles)	J 515 510
	PT B- – 3E (3 poles)	J 515 511
	PT B- – 4E (4 poles)	J 515 512



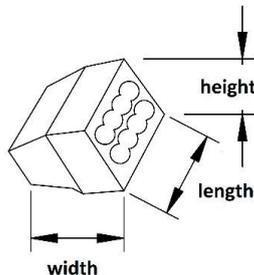
Main parameters

- Operating temperature < 350°C
- Conductor cross section: 4 ÷ 16 mm²
- Insulating body: porcelain, white colour
- Assembly method: Into the box / on the plate
- Conductive with surface treatment Ni
- Finely stranded wires should be provided with a ferrule
- Test with a hot loop at a temperature of 960°C according to EN 60 695-2-11



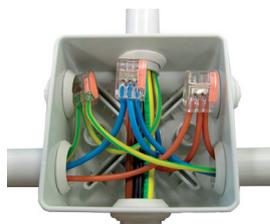
9.3 Push-in terminals ST

The advantage of the screwless ST terminals is the unusual small dimensions thanks to which they save space in the installation box. They are easily handled without the need for tools and they provide a permanent, safe and reliable contact for all applicable conductor cross-sections. The permanent contact with the conductor is provided by the down pressure of the spring. The terminals are suitable for conductors with a solid core. To insert the conductor into the terminal, just insert it end-to-end. The transparent body of the terminal allows a clear identification of the connection. The cross-sections in one terminal can be combined in any way in the various openings. To disconnect, use circular motion and pull the conductor.



ST

Rated cross-section [mm ²]	2,5	
Rated current [A]	24	
Rated voltage U _i [V]	450	
Conductor cross section [mm ²]	1 ÷ 2,5	
Tightening torque [Nm]	-	
Tools	SCREWLESS	
Assembly method	Into the box	
IP code	20	
Operating temperature [°C]	< 85	
Number of clamping points per level	2 / 3 / 4 / 5 / 8	
Number of levels	1	
End cover plate required	NO	
Dimensions [mm]	width / height	17,5 / 10 (ST 3508 = 14,5)
	length (2 / 3 / 4 / 5 / 8 multiple)	10 / 14 / 17 / 21 / 18
Weight [g] (2 / 3 / 4 / 5 / 8 multiple)	1,5 / 2 / 2,5 / 3 / 5,2	
Packing [pcs]	1	
Order number	ST 3502 (2 multiple)	J 515 601
	ST 3503 (3 multiple)	J 515 602
	ST 3504 (4 multiple)	J 515 603
	ST 3505 (5 multiple)	J 515 604
	ST 3508 (8 multiple)	J 515 605



Main parameters

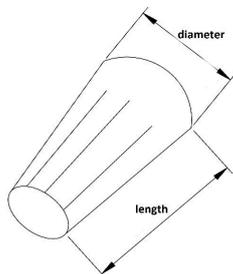
- Operating temperature < 85°C
- Conductor cross section: 2,5 mm²
- Insulating body: Polycarbonate, flammability V0
- Assembly method: Into the box



9 CONNECTORS FOR BOXES

9.4 Nut wire connectors

The twist-on wire connectors are used for connecting two and more conductors in installation boxes, sockets, appliances etc. It is a screw dismountable connection and the connectors can be used repeatedly. The expanded mouth of the connector is used for easier insertion of the conductor. The individual types differ in colour, determined by the nominal cross-section. In one connector, it is possible to combine flexible and solid conductors, or conductors with different cross-sections.



	Ideal 71B – 1,5	Ideal 72B – 2,5	Ideal 73B – 2,5
Rated cross-section [mm ²]	1,5	2,5	2,5
Rated current [A]	17,5	24	24
Rated voltage U _i [V]	300	300	600
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	6 000
Conductor cross section [mm ²]	0,34 ÷ 1,5	0,34 ÷ 2,5	0,34 ÷ 2,5
Tightening torque [Nm]	-	-	-
Tools	-	-	-
Assembly method	Rotation on conductors	Rotation on conductors	Rotation on conductors
IP code	20	20	20
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	-40 ÷ +105
Number of clamping points per level	1	1	1
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	UL 486C	UL 486C	UL 486C
Dimensions [mm] (length /lower external diameter)	15 / 8,3	18 / 10	22 / 11
Weight [g]	1	1	1
Packing [pcs]	100 / 1 000	100 / 1 000	100 / 1 000
Order number	1 pc	J 513 900	J 514 000
	1 000 pcs	J 513 901	J 514 001

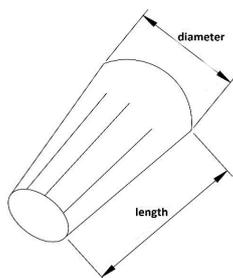


Main parameters

- Operating temperature -40 ÷ +105°C
- Conductor cross section: 0,34 to 6 mm²
- Insulation section: PP, flammability V2 according to UL94
- Possibility of a good connection between the stranded and solid conductors
- Possibility of combining cross-sections of conductors in individual types
- Quick and easy installation
- Guarantee perfect twisting and pull-out protection
- Fixing part: Surface modified steel



9.4 Nut wire connectors



	Ideal 74B – 4	Ideal 76B – 6	
Rated cross-section [mm ²]	4	6	
Rated current [A]	32	41	
Rated voltage U _i [V]	600	600	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000	
Conductor cross section [mm ²]	0,75 - 4	0,75 - 6	
Tightening torque [Nm]	-	-	
Tools	-	-	
Assembly method	Rotation on conductors	Rotation on conductors	
IP code	20	20	
Operating temperature [°C]	-40 ÷ +105	-40 ÷ +105	
Number of clamping points per level	1	1	
Number of levels	1	1	
End cover plate required	NO	NO	
Testing	UL 486C	UL 486C	
Dimensions [mm] (length /lower external diameter)	24 / 14	27 / 15	
Weight [g]	2	3	
Packing [pcs]	100 / 1 000	100 / 1 000	
Order number	1 pc	J 514 200	J 514 300
	1 000 pcs	J 514 201	J 514 301



Main parameters

- Operating temperature -40 ÷ +105°C
- Conductor cross section: 0,34 to 6 mm²
- Insulation section: PP, flammability V2 according to UL94
- Possibility of a good connection between the strained and rigid conductors
- Possibility of combining cross-sections of conductors in individual types
- Quick and easy installation
- Guarantee perfect twisting and pull-out protection
- Fixing part: Surface modified steel

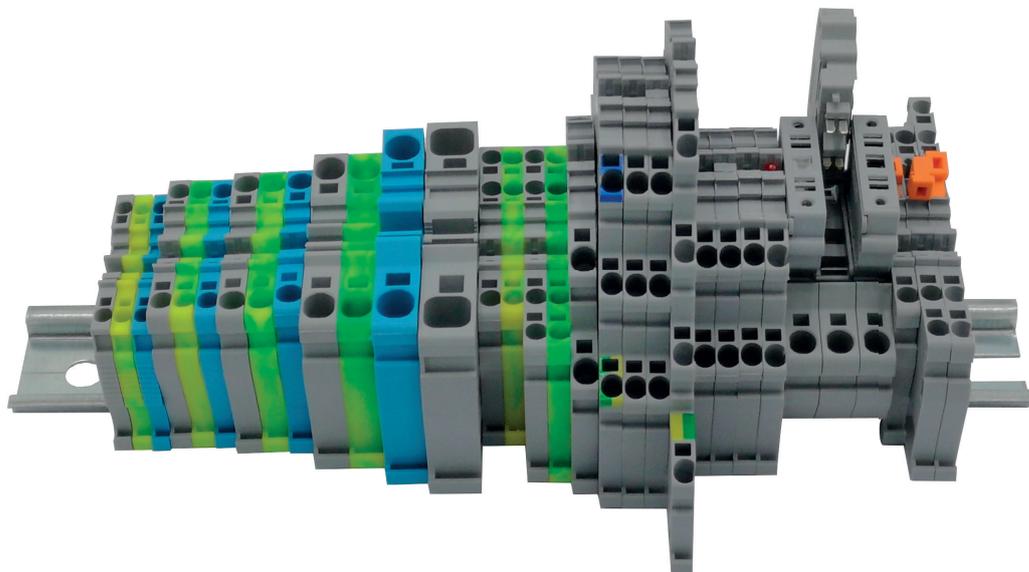


10 SCREWLESS TERMINALS

10.1 Screwless terminals PUSH-IN

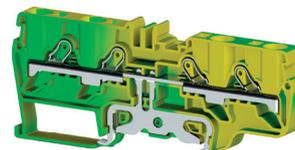
Easy Mounting of PYK Series Terminals

Solid/stranded cables (with ferrules) are connected to the terminal just by pushing-in, without the need to use a screwdriver. The patented design of its spring provides fast and safe connection in heavily vibrating environments.



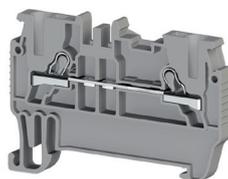
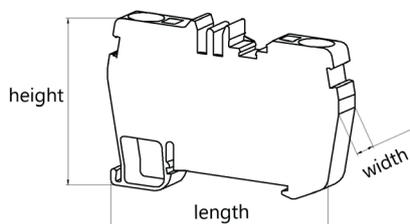
Main parameters

- Operating temperature $-55 \div +120^{\circ}\text{C}$
- Conductors connection without screws
- Conductor cross section: $1,5 \div 16 \text{ mm}^2$
- Insulating body: Polyamide PA 6.6, flammability V2
- Cover: IP 20
- Clamping on the DIN Rail TH 35
- Available in grey and blue colour, the PE terminals are available in yellow-green
- Screwless push-in terminals are tested according to CE (EN 60947-7-1, EN 60947-7-2)



10.1.1 Push-in terminals

PYK Series terminals are available in nominal cross-sections from 1,5 to 16 mm². Screwdriver is not necessary to insert wire into the terminal block. They are suitable for usage with or without ferrules. To make connection, it is sufficient to push the cable into the terminal, PYK series provides more practical mounting. Terminals accessories like end cover plates and plug-in-bridges, make the mounting process faster like in Test Terminals. Multi-card marking tags are available with or without printing



PYK 1,5 M

PYK 2,5

PYK 4

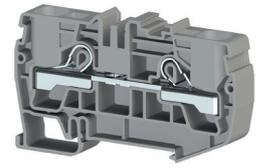
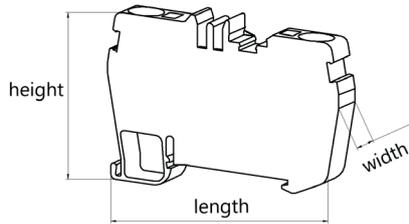


Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5	2,5
	UL [AVG]	24	24	24
	VDE [mm ²]	300	300	300
	ATEX	250~; 250 =	250~; 250 =	250~; 250 =
Rated current [A]	CE [mm ²]	17,5	24	32
	UL [AVG]	-	20	30
	VDE [mm ²]	-	24	32
	ATEX	-	24	32
Rated voltage U _i [V]	CE [mm ²]	800	800	800
	UL [AVG]	-	600	600
	VDE [mm ²]	-	800	800
	ATEX	-	800	800
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4	0,34 ÷ 6
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5	0,25 ÷ 4
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5		Flat screwdriver 0,5 x 3
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2	2
Number of levels		1	1	1
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 52	5 / 43 / 53,4	6 / 44 / 55,9
Weight [g]		4	6	9
Packing [pcs]		100	100	100
Order number		A0 307 019	A0 307 109	A0 307 119
		A0 307 011	A0 307 101	A0 307 111



10 SCREWLESS TERMINALS

10.1.1 Push-in terminals

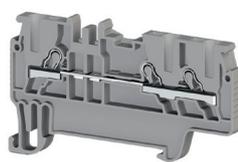
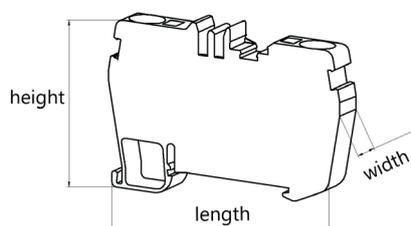


		PYK 6	PYK 10	PYK 16
		○●●●○	○●●●○	○●●●○
Rated cross-section [mm ²]	CE [mm ²]	6	10	16
	UL [AVG]	20 - 8	20 - 6	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated current [A]	CE [mm ²]	41	57	76
	UL [AVG]	35	55	-
	VDE [mm ²]	-	-	-
	ATEX	41	57	-
Rated voltage U _i [V]	CE [mm ²]	800	800	1 000
	UL [AVG]	600	600	-
	VDE [mm ²]	-	-	-
	ATEX	800	800	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 10	0,5 ÷ 16	0,5 ÷ 25
	Finely stranded conductor	0,5 ÷ 6	0,5 ÷ 10	0,5 ÷ 16
Stripping length [mm]		11 - 13	13 - 15	16 - 18
Tool for conductor release		Flat screwdriver 0,6 x 3,5		Flat screwdriver 0,8 x 4
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2	2
Number of levels		1	1	1
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		8 / 46,2 / 65,6	10 / 52 / 75,4	12 / 49,5 / 81,45
Weight [g]		13	20	28
Packing [pcs]		60	50	30
Order number		A0 307 129	A0 307 139	A0 307 659
		A0 307 121	A0 307 131	A0 307 651



10.1.1 Push-in terminals

PYK Series Multi Input/Output Terminals make wiring more practical, reduce the installation costs where double and multilevel terminals cannot be used in the panels. Marking is available with all single layer PYK type terminals. Terminals can be used with test terminals and cross connection is available. Earth terminals with same cross sections have the same features. Multi-card marking tags are available with or without printing.



PYK 1,5 ME

PYK 2,5 E

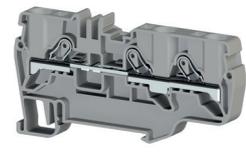
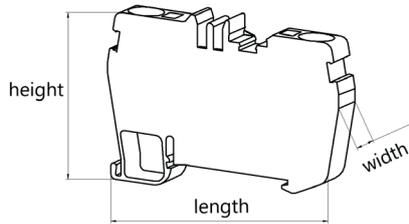


Rated cross-section [mm ²]	CE [mm ²]	1,5	2,5
	UL [AVG]	-	22 - 12
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	17,5	24
	UL [AVG]	-	20
	VDE [mm ²]	-	-
	ATEX	-	-
Rated voltage U _i [V]	CE [mm ²]	800	800
	UL [AVG]	-	600
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		3	3
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 63,6	5 / 43 / 64,85
Weight [g]		5	9
Packing [pcs]		70	50
Order number		A0 307 039	A0 307 439



10 SCREWLESS TERMINALS

10.1.1 Push-in terminals



PYK 4 E

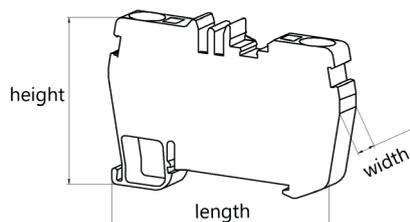
PYK 6 E



Rated cross-section [mm ²]	CE [mm ²]	4	6
	UL [AVG]	22 - 12	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	32	41
	UL [AVG]	30	-
	VDE [mm ²]	-	-
	ATEX	30	-
Rated voltage U _i [V]	CE [mm ²]	800	1 000
	UL [AVG]	600	-
	VDE [mm ²]	-	-
	ATEX	800	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 6	0,5 ÷ 10
	Finely stranded conductor	0,25 ÷ 4	0,5 ÷ 6
Stripping length [mm]		9 - 10	11 - 13
Tool for conductor release		Flat screwdriver 0,5 x 3	Flat screwdriver 0,6 x 3,5
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		3	3
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		6 / 44 / 70,8	8 / 46,2 / 85,5
Weight [g]		10	17
Packing [pcs]		50	45
Order number		A0 307 229	A0 307 639



10.1.1 Push-in terminals



PYK 1,5 MC

PYK 2,5 C

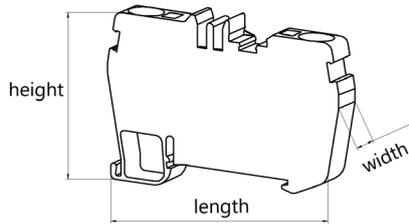


Rated cross-section [mm ²]	CE [mm ²]	1,5	2,5
	UL [AVG]	-	22 - 12
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	17,5	24
	UL [AVG]	-	20
	VDE [mm ²]	-	-
	ATEX	-	-
Rated voltage U _i [V]	CE [mm ²]	800	800
	UL [AVG]	-	600
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	Flat screwdriver 0,6 x 3,5
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 75,1	5 / 43 / 76,4
Weight [g]		6	9
Packing [pcs]		70	50
Order number		A0 307 029	A0 307 389



10 SCREWLESS TERMINALS

10.1.1 Push-in terminals



PYK 4 C

PYK 6 C



Rated cross-section [mm ²]	CE [mm ²]	4	6
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	32	41
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated voltage U _i [V]	CE [mm ²]	1 000	1 000
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 6	0,5 ÷ 10
	Finely stranded conductor	0,25 ÷ 4	0,5 ÷ 6
Stripping length [mm]		9 - 10	11 - 13
Tool for conductor release		Flat screwdriver 0,5 x 3	Flat screwdriver 0,6 x 3,5
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		6 / 44 / 85,7	8 / 46,2 / 105,4
Weight [g]		14	22
Packing [pcs]		45	35
Order number		A0 307 669	A0 307 649



10.1.1.1 Accessories

	PYK 1,5 M	PYK 2,5	PYK 4	PYK 6	PYK 10	PYK 16
End cover plate	B0 446 639	B0 446 449	B0 446 459	B0 446 469	B0 446 479	B0 450 419
Middle cover plate	B0 463 180	B0 463 180	B0 463 180	B0 463 190	B0 463 200	-
Plug-in-bridge 2 poles	C0 476 602	C0 476 222	C0 476 232	C0 476 242	C0 476 252	C0 470 142
Plug-in-bridge 3 poles	C0 476 603	C0 476 223	C0 476 233	C0 476 243	C0 476 253	C0 470 143
Plug-in-bridge 4 poles	C0 476 604	C0 476 224	C0 476 234	C0 476 244	C0 476 254	C0 470 144
Plug-in-bridge 5 poles	-	-	-	-	-	C0 470 145
Plug-in-bridge 10 poles	C0 476 609	C0 476 229	C0 476 239	C0 476 249	C0 476 259	-
PYK Test	-	C0 498 559	C0 498 559	-	-	-

	PYK 1,5 ME	PYK 2,5 E	PYK 4 E	PYK 6 E
End cover plate	B0 446 649	B0 446 619	B0 446 559	B0 446 689
Plug-in-bridge 2 poles	C0 476 602	C0 476 222	C0 476 232	C0 476 242
Plug-in-bridge 3 poles	C0 476 603	C0 476 223	C0 476 233	C0 476 243
Plug-in-bridge 4 poles	C0 476 604	C0 476 224	C0 476 234	C0 476 244
Plug-in-bridge 10 poles	C0 476 609	C0 476 229	C0 476 239	C0 476 249
PYK Test	-	C0 498 559	C0 498 559	-

	PYK 1,5 MC	PYK 2,5 C	PYK 4 C	PYK 6 C
End cover plate	B0 446 659	B0 446 499	B0 446 679	B0 446 699
Plug-in-bridge 2 poles	C0 476 602	C0 476 222	C0 476 232	C0 476 242
Plug-in-bridge 3 poles	C0 476 603	C0 476 223	C0 476 233	C0 476 243
Plug-in-bridge 4 poles	C0 476 604	C0 476 224	C0 476 234	C0 476 244
Plug-in-bridge 10 poles	C0 476 609	C0 476 229	C0 476 239	C0 476 249
PYK Test	-	C0 498 559	-	-



End cover plate



Middle cover plate



Plug-in-bridge 2 poles

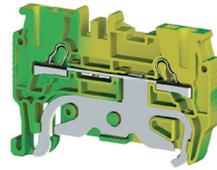
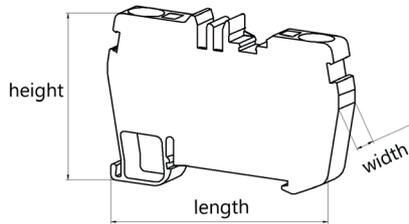


PYK Test

10 SCREWLESS TERMINALS

10.1.2 Push - in Earth terminals

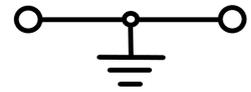
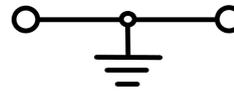
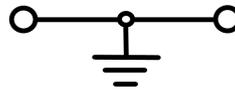
Earth Terminals are available in nominal cross-sections from 1,5 to 16 mm². Screwdriver is not necessary to mount the terminal block on the rail. Mounting is more time-saving and practical. Yellow-Green colour of the insulation body provides easy identification out of other Terminals. Side-by-side mounting on DIN-Rail with feed-through terminals for same cross-sections is possible with good visual effect. Multi-card marking tags are available with or without printing.



PYK 1,5 M

PYK 2,5 T

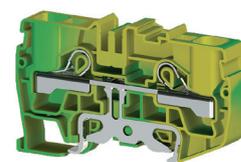
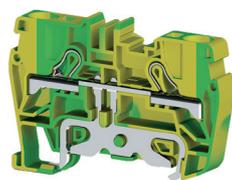
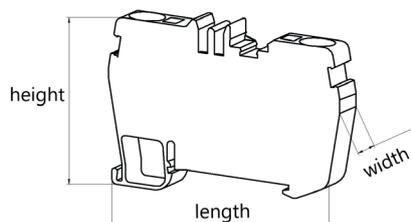
PYK 4 T



Rated cross-section [mm ²]	CE [mm ²]	1,5	2,5	4
	UL [AVG]	-	22 - 12	22 - 10
	VDE [mm ²]	-	2,5	4
	ATEX	-	-	-
Rated voltage U _i [V]	CE [mm ²]	-	-	-
	UL [AVG]	-	-	-
	VDE [mm ²]	-	-	-
	ATEX	-	800	800
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4	0,34 ÷ 6
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5	0,25 ÷ 4
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5		Flat screwdriver 0,5 x 3
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2	2
Number of levels		1	1	1
End cover plate required		YES	YES	YES
Testing		EN 60947-7-2	EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 52	5 / 43 / 53,4	6 / 44 / 55,9
Weight [g]		8	11	14
Packing [pcs]		100	50	50
Order number		A0 336 440	A0 336 500	A0 336 510



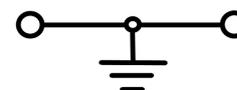
10.1.2 Push - in Earth terminals



PYK 6 T

PYK 10 T

PYK 16 T



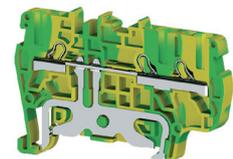
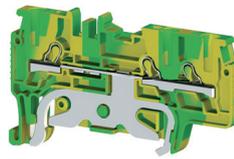
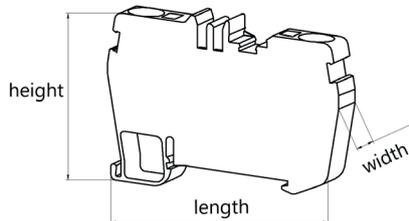
Rated cross-section [mm ²]	CE [mm ²]	6	10	16
	UL [AVG]	20 - 8	20 - 6	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated voltage U _i [V]	CE [mm ²]	-	-	-
	UL [AVG]	-	600	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4	0,34 ÷ 6
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5	0,25 ÷ 4
Stripping length [mm]		11 - 13	13 - 15	16 - 18
Tool for conductor release		Flat screwdriver 0,6 x 3,5		Flat screwdriver 0,8 x 4
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2	2
Number of levels		1	1	1
End cover plate required		YES	YES	YES
Testing		EN 60947-7-2	EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		8 / 46,2 / 65,6	10 / 52 / 75,4	12 / 49,5 / 81,45
Weight [g]		21	33	40
Packing [pcs]		60	25	30
Order number		A0 336 520	A0 336 530	A0 336 640



10 SCREWLESS TERMINALS

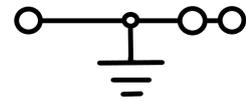
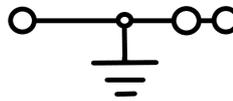
10.1.2 Push - in Earth terminals

PYK Series Multi Input/Output Terminals make wiring more practical, reduce the installation costs where double and multilevel terminals cannot be used in the panels. Marking is available with all single layer PYK type terminals. Terminals can be used with test terminals and cross connection is available. Have same features in Earth terminals with same cross sections. Earth terminals with same cross sections have the same features. Multi-card marking tags are available with or without printing.



PYK 1,5 MET

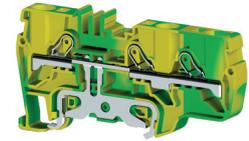
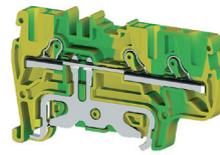
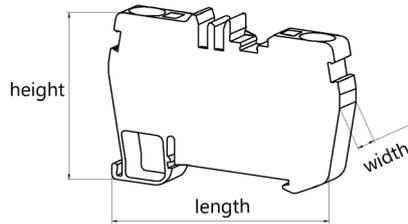
PYK 2,5 ET



Rated cross-section [mm ²]	CE [mm ²]	1,5	2,5
	UL [AVG]	-	22 - 12
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	-	-
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		3	3
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 63,6	5 / 43 / 64,85
Weight [g]		9	12
Packing [pcs]		70	50
Order number		A0 336 460	A0 336 550

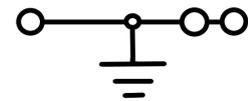
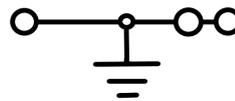


10.1.2 Push - in Earth terminals



PYK 4 ET

PYK 6 ET

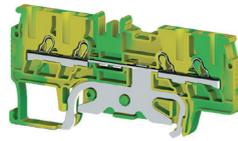
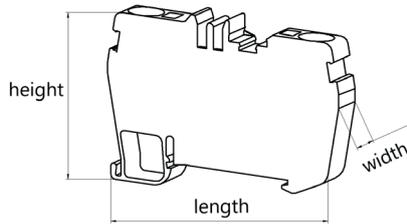


Rated cross-section [mm ²]	CE [mm ²]	4	6
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	-	-
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 6	0,5 ÷ 10
	Finely stranded conductor	0,25 ÷ 4	0,5 ÷ 6
Stripping length [mm]		9 - 10	11 - 13
Tool for conductor release		Flat screwdriver 0,5 x 3	Flat screwdriver 0,6 x 3,5
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		3	3
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		6 / 44 / 70,8	8 / 46,2 / 85,5
Weight [g]		15	26
Packing [pcs]		50	45
Order number		A0 336 600	A0 336 620



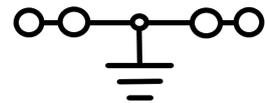
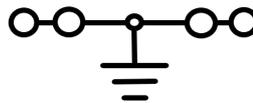
10 SCREWLESS TERMINALS

10.1.2 Push - in Earth terminals



PYK 1,5 MET

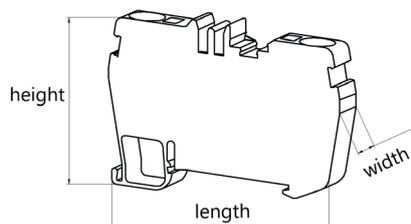
PYK 2,5 CT



Rated cross-section [mm ²]	CE [mm ²]	1,5	2,5
	UL [AVG]	-	22 - 12
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	-	-
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 2,5	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 1,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		4,2 / 37,8 / 75,1	5 / 43 / 76,4
Weight [g]		10	13
Packing [pcs]		70	50
Order number		A0 336 450	A0 336 540

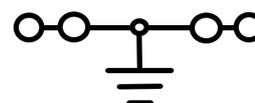


10.1.2 Push - in Earth terminals



PYK 4 CT

PYK 6 CT



Rated cross-section [mm ²]	CE [mm ²]	4	6
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	-	-
	UL [AVG]	-	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 6	0,5 ÷ 10
	Finely stranded conductor	0,25 ÷ 4	0,5 ÷ 6
Stripping length [mm]		9 - 10	11 - 13
Tool for conductor release		Flat screwdriver 0,5 x 3	Flat screwdriver 0,6 x 3,5
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4
Number of levels		1	1
End cover plate required		YES	YES
Testing		EN 60947-7-2	EN 60947-7-2
Dimensions [mm] (width / height / length)		6 / 44 / 85,7	8 / 46,2 / 105,4
Weight [g]		18	30
Packing [pcs]		45	35
Order number		A0 336 610	A0 336 630



10 SCREWLESS TERMINALS

10.1.2.1 Accessories

	PYK 1,5 MT	PYK 2,5 T	PYK 4 T	PYK 6 T	PYK 10 T	PYK 16 T
End cover plate	B0 446 632T	B0 446 442T	B0 446 452T	B0 446 462T	B0 446 472T	B0 450 412T

	PYK 1,5 MET	PYK 2,5 ET	PYK 4 ET	PYK 6 ET
End cover plate	B0 446 642T	B0 446 612T	B0 446 552T	B0 446 682T

	PYK 1,5 MCT	PYK 2,5 CT	PYK 4 CT	PYK 6 CT
End cover plate	B0 446 652T	B0 446 492T	B0 446 672T	B0 446 692T



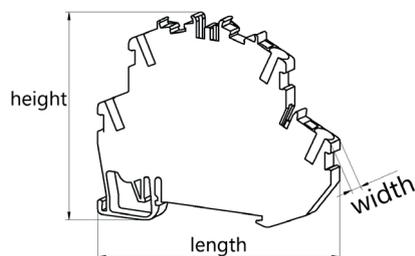
End cover plate T



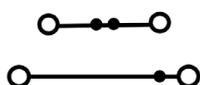
End cover plate ET

10.1.3 Push-in Multilevel terminals

Double Deck Practical Spring Terminals are available in 2,5 - 4 mm² cross section range. Double wiring density available without extension of mounting rails. Plug-in bridges can be used in both layers. Group marking carrier is used to provide more visual marking in base layer. Multi-card marking tags are available with or without printing.



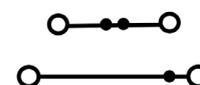
PYK 2,5 - 2 F



PYK 2,5 - 2 FK



PYK 4 - 2 FN

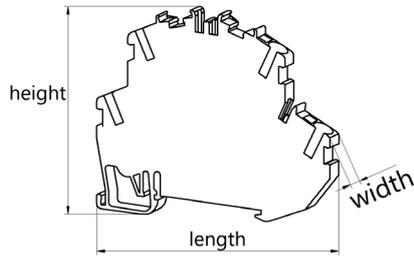


Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5	4
	UL [AVG]	22 - 12	20 - 12	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated current [A]	CE [mm ²]	24	24	32
	UL [AVG]	20	20	-
	VDE [mm ²]	-	-	-
	ATEX	21	21	-
Rated voltage U _i [V]	CE [mm ²]	500	500	500
	UL [AVG]	300	300	-
	VDE [mm ²]	-	-	-
	ATEX	500	500	-
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000	6 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4	0,34 ÷ 6
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5	0,25 ÷ 4
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5		Flat screwdriver 0,5 x 3,0
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4	4
Number of levels		2	2	2
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 62,9 / 75,3	5 / 62,9 / 75,3	6 / 65,6 / 86,8
Weight [g]		11	13	16
Packing [pcs]		40	40	25
Order number		A0 307 179	A0 307 239	A0 307 579



10 SCREWLESS TERMINALS

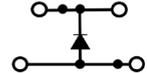
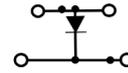
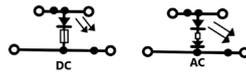
10.1.3 Push-in Multilevel terminals



PYK 2,5 - 2 FLD

PYK 2,5 - 2 FD A

PYK 2,5 - 2 FD B

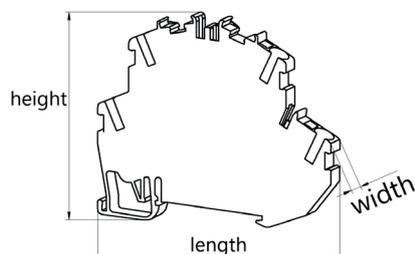


Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5	2,5
	UL [AVG]	-	-	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated current [A]	CE [mm ²]	24	0,5	0,5
	UL [AVG]	-	-	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated voltage U _i [V]	CE [mm ²]	-	500	500
	UL [AVG]	-	-	-
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000	6 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Stripping length [mm]	Voltage [V]	-	1 300	1 300
	Current [A]	-	0,5	0,5
	Type	-	1 N 4007	1 N 4007
Tool for conductor release		Flat screwdriver 0,4 x 2,5		
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4	4
Number of levels		2	2	2
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 62,9 / 75,3	5 / 62,9 / 75,3	5 / 62,9 / 75,3
Weight [g]		12	11	12
Packing [pcs]		40	40	40
Order number		A0 307 349 (24 V DC)	A0 307 369	A0 307 379
		A0 307 359 (220 V AC)		

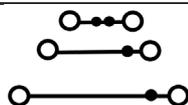


10.1.3 Push-in Multilevel terminals

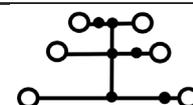
Multilevel Practical Spring Terminals make wiring more practical, reduce the installation costs and speed the wiring. Panels in which exist switch lines & lightening, provide phase neutral- Earth connection in one terminal. Thanks to the more practical wiring, are ideal for usage in industries where motors are working a lot. Individual cross connections for each layer is provided. Group marking carrier is used to provide more visual marking in base layer. Multi-card marking tags are available with or without printing.



PYK 2,5 - 3 F



PYK 2,5 - 3 FK

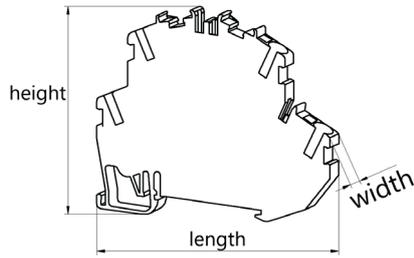


Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5
	UL [AVG]	22 - 12	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	24	24
	UL [AVG]	20	-
	VDE [mm ²]	-	-
	ATEX	20,5	20,5
Rated voltage U _i [V]	CE [mm ²]	500	500
	UL [AVG]	300	-
	VDE [mm ²]	-	-
	ATEX	500	500
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	Flat screwdriver 0,5 x 3,0
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		6	6
Number of levels		3	3
End cover plate required		YES	YES
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 83,1 / 98,7	5 / 83,1 / 98,7
Weight [g]		19	19
Packing [pcs]		30	30
Order number		A0 307 199	A0 307 559



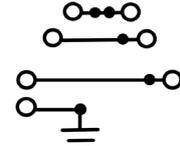
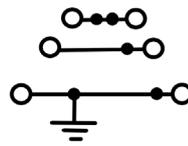
10 SCREWLESS TERMINALS

10.1.3 Push-in Multilevel terminals



PYK 2,5 – 2 FT

PYK 2,5 – 3 FT



Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5
	UL [AVG]	22 - 12	22 - 12
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	24	24
	UL [AVG]	20	20
	VDE [mm ²]	-	-
	ATEX	21	20,5
Rated voltage U _i [V]	CE [mm ²]	500	500
	UL [AVG]	300	300
	VDE [mm ²]	-	-
	ATEX	500	400
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		6	7
Number of levels		3	4
End cover plate required		YES	YES
Testing		EN 60947-7-1 / EN 60947-7-2	EN 60947-7-1 / EN 60947-7-2
Dimensions [mm] (width / height / length)		5 / 83,1 / 98,7	5 / 93 / 118,6
Weight [g]		22	27
Packing [pcs]		30	30
Order number		A0 307 189	A0 307 209



10.1.3.1 Accessories

	PYK 2,5 - 2 F	PYK 2,5 - 2 FK	PYK 4 - 2 FN	PYK 2,5 - 2 FLD	PYK 2,5 - 2 FD A	PYK 2,5 - 2 FD B
End cover plate	B0 446 519	B0 446 519	B0 446 669	B0 446 519	B0 446 519	B0 446 519
Plug-in-bridge 2 poles	C0 476 222	C0 476 222	C0 476 232	C0 476 222	C0 476 222	C0 476 222
Plug-in-bridge 3 poles	C0 476 223	C0 476 223	C0 476 233	C0 476 223	C0 476 223	C0 476 223
Plug-in-bridge 4 poles	C0 476 224	C0 476 224	C0 476 234	C0 476 224	C0 476 224	C0 476 224
Plug-in-bridge 10 poles	C0 476 229	C0 476 229	C0 476 239	C0 476 229	C0 476 229	C0 476 229
Label carrier ETS 2 PYK 2,5	G0 498 219	G0 498 219	-	G0 498 219	-	-
Label carrier ETS 2 PYK 4	-	-	G0 498 239	-	-	-

	PYK 2,5 - 3 F	PYK 2,5 - 3 FK	PYK 2,5 - 2 FT	PYK 2,5 - 3 FT
End cover plate	B0 446 529	B0 446 529	B0 446 529	B0 446 539
Plug-in-bridge 2 poles	C0 476 222	C0 476 222	C0 476 222	C0 476 222
Plug-in-bridge 3 poles	C0 476 223	C0 476 223	C0 476 223	C0 476 223
Plug-in-bridge 4 poles	C0 476 224	C0 476 224	C0 476 224	C0 476 224
Plug-in-bridge 10 poles	C0 476 229	C0 476 229	C0 476 229	C0 476 229
Label carrier ETS 2 PYK 2,5	G0 498 219	-	G0 498 219	G0 498 219
Label carrier ETS 3 PYK 2,5	G0 498 229	-	G0 498 229	G0 498 229



End cover plate



Plug-in-bridge 4 poles



ETS 2 PYK 2,5



ETS PYK 3 PYK 2,5

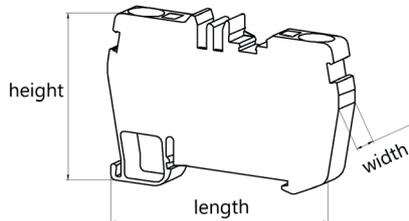


ETS 2 PYK 4

10 SCREWLESS TERMINALS

10.1.4 Push-in Disconnect and Fuse Terminals

Disconnect Terminals enables to safely open/close the circuit, when the energy is on in the system. For PYK 2,5 A and PYK 2,5 CCA you can use the PYK Test. Multi-card marking tags are available with or without printing.



PYK 2,5 A

PYK 2,5 EA

PYK 2,5 CCA

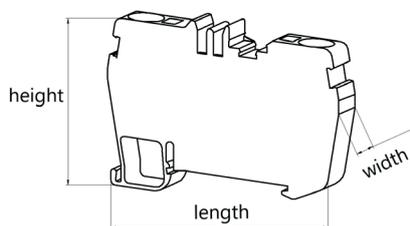


Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5	2,5
	UL [AVG]	22 - 12	-	22 - 12
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated current [A]	CE [mm ²]	20	16	16
	UL [AVG]	16	-	10
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated voltage U _i [V]	CE [mm ²]	400	400	400
	UL [AVG]	300	-	300
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated impulse withstand voltage U _{imp} [V]		4 000	4 000	4 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5		
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	3	4
Number of levels		1	1	1
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 43,7 / 70,8	5 / 43,7 / 82,4	5 / 43,7 / 93,9
Weight [g]		8	9	11
Packing [pcs]		50	60	60
Order number		A0 307 169	A0 307 459	A0 307 219



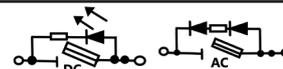
10.1.4 Push-in Disconnect and Fuse Terminals

Practical Spring Clamp Fuse Terminals have a sliding type hinged carrier that has a specially designed space for cartridge type glass fuse of size Ø 5x20 together with a spare one. Both sides of the terminals are closed and available for cross connection. Multi-card marking tags are available with or without printing.



PYK 4 S

PYK 4 SLD



Rated cross-section [mm ²]	CE [mm ²]	4	4
	UL [AVG]	22 - 10	22 - 10
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	10	10
	UL [AVG]	10	10
	VDE [mm ²]	-	-
	ATEX	-	-
Rated voltage U _i [V]	CE [mm ²]	500	-
	UL [AVG]	300	-
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 6	0,34 ÷ 6
	Finely stranded conductor	0,25 ÷ 4	0,25 ÷ 4
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,5 x 3	Flat screwdriver 0,5 x 3
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2
Number of levels		1	1
End cover plate required		YES	YES
Fuse/Fuse type		5 x 20	5 x 20
Testing		EN 60947-7-3	EN 60947-7-3
Dimensions [mm] (width / height / length)		8 / 61,1 / 63,1	8 / 61,1 / 63,1
Weight [g]		19	19
Packing [pcs]		15	15
Order number		A0 307 249	A0 307 259 (24 V DC)
			A0 307 269 (220 V AC)



10 SCREWLESS TERMINALS

10.1.4.1 Accessories

	PYK 2,5 A	PYK 2,5 EA	PYK 2,5 CCA	PYK 4 S	PYK 4 SLD
End cover plate	B0 446 509	B0 446 629	B0 446 549	-	-
Plug-in-bridge 2 poles	C0 476 222	C0 476 222	C0 476 222	C0 476 242	C0 476 242
Plug-in-bridge 3 poles	C0 476 223	C0 476 223	C0 476 223	C0 476 243	C0 476 243
Plug-in-bridge 4 poles	C0 476 224	C0 476 224	C0 476 224	C0 476 244	C0 476 244
Plug-in-bridge 10 poles	C0 476 229	C0 476 229	C0 476 229	C0 476 249	C0 476 249
PYK Test	C0 498 559	-	C0 498 559	-	-



End cover plate



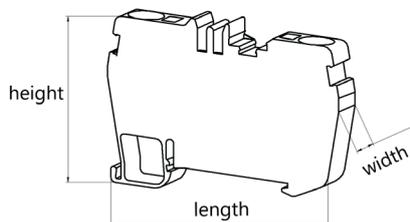
Plug-in-bridge 2 poles



PYK Test

10.1.5 Push-in Sensor Terminals

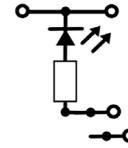
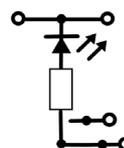
Practical Spring Terminals are making sensor connections, which are often used in industry, more practical and esthetic. Terminals can be used with NPN and PNP types of sensors. Multi-card marking tags are available with or without printing.



PYK 3 S

PYK 3 SLD (NPN)

PYK 3 SLD (PNP)



Rated cross-section [mm ²]	CE [mm ²]	2,5	2,5	2,5
	UL [AVG]	22 – 12	22 – 12	22 – 12
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated current [A]	CE [mm ²]	24	24	24
	UL [AVG]	20	20	20
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated voltage U _i [V]	CE [mm ²]	250	24	24
	UL [AVG]	300	300	300
	VDE [mm ²]	-	-	-
	ATEX	-	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 4	0,34 ÷ 4
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 2,5	0,34 ÷ 2,5
Stripping length [mm]		9 - 10	9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5		
Assembly method		TH 35	TH 35	TH 35
Pollution degree		3	3	3
IP code		20	20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		4	4	4
Number of levels		3	3	3
End cover plate required		YES	YES	YES
Testing		EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 58,6 / 79,4	5 / 58,6 / 79,4	5 / 58,6 / 79,4
Weight [g]		9	10	10
Packing [pcs]		20	20	20
Order number		A0 307 409	A0 307 419	A0 307 429



10 SCREWLESS TERMINALS

10.1.5.1 Accessories

	PYK 3 S	PYK 3 SLD (NPN)	PYK 3 SLD (PNP)
End cover plate	B0 446 609	B0 446 609	B0 446 609
Plug-in-bridge 2 poles	C0 476 222	C0 476 222	C0 476 222
Plug-in-bridge 3 poles	C0 476 223	C0 476 223	C0 476 223
Plug-in-bridge 4 poles	C0 476 224	C0 476 224	C0 476 224
Plug-in-bridge 10 poles	C0 476 229	C0 476 229	C0 476 229



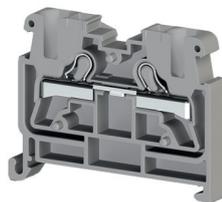
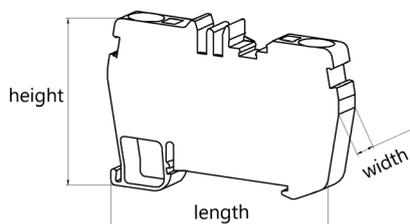
End cover plate



Plug-in-bridge 10 poles

10.1.6 Push-in Testing Terminals

PYKMR Series Practical spring clamp mini Terminals, can be connected to each other when mounted on the DIN TH35 rail and have safe connection. Practical Spring Clamp mini Terminals enable fast solutions on narrow spaces. Multi-card marking tags are available with or without printing.



PYKMR 2,5

PYK Test



Rated cross-section [mm ²]	CE [mm ²]	2,5	1,5
	UL [AVG]	-	22 – 14
	VDE [mm ²]	-	-
	ATEX	-	-
Rated current [A]	CE [mm ²]	24	17,5
	UL [AVG]	-	15
	VDE [mm ²]	-	-
	ATEX	-	-
Rated voltage U _i [V]	CE [mm ²]	800	250
	UL [AVG]	-	300
	VDE [mm ²]	-	-
	ATEX	-	-
Rated impulse withstand voltage U _{imp} [V]		8 000	8 000
Conductor cross section [mm ²]	Solid conductor	0,34 ÷ 4	0,34 ÷ 2,5
	Finely stranded conductor	0,34 ÷ 2,5	0,34 ÷ 1,5
Stripping length [mm]		9 - 10	9 - 10
Tool for conductor release		Flat screwdriver 0,4 x 2,5	
Assembly method		TH 35	TH 35
Pollution degree		3	3
IP code		20	20
Operating temperature [°C]		-55 ÷ +120	-55 ÷ +120
Number of clamping points per level		2	2
Number of levels		1	1
End cover plate required		YES	-
Testing		EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)		5 / 33,7 / 39,65	5 / 53,7 / 20,8
Weight [g]		4	3
Packing [pcs]		50	25
Order number		A0 307 499	C0 498 559 ¹

¹ PYK Test you can use for these terminals: PYK 2,5; PYK 4; PYK 4 E; PYK 2,5 A; PYK 2,5 CCA; PYK 2,5 C; PYK 2,5 E.



10 SCREWLESS TERMINALS

10.1.6.1 Accessories

	PYK Test	PYKMR 2,5
End cover plate	B0 498 659	B0 446 589
		B0 446 599 (Distance)



End cover plate



End cover plate (distance)



End cover plate PYK Test A

10.1.7 Marking multi-cards

	DB 10/4	DG 10/5	DG 10/6	DG 6/5	DG 10/8	DG 10/10
Order number of multi-card without printing	G0 503 000	G0 505 310	G0 505 320	G0 505 330	G0 505 410	G0 505 430
Order number of multi-card with printing	G0 513 000	G0 515 310	G0 515 320	G0 515 330	G0 515 410	G0 515 430
Dimensions of tag [mm]	10 x 4	10 x 5	10 x 6	6 x 5	10 x 8	10 x 10
Number of multi-cards in box [pcs]	16	10	10	10	10	10
Number of tags in multi-card / in box	30 / 480	44 / 440	36 / 360	40 / 400	26 / 260	20 / 200
PYK 1,5..T..M..C..E..CT..ET	•					
PYK 2,5..A..CCA..EA..C..CT..E..ET		•		•		
PYK 4..T..E		•	•	•		
PYK 6..T		•	•	•	•	
PYK 10..T		•	•	•	•	•
PYK 16..T						•
PYK 2,5..2F..2FK..2FLD..3F..2FT..3FT		•		•		
PYK 4-2F		•	•	•		
PYK 4..S..SLD		•	•	•	•	
PYK 3S		•		•		
PYK 3 SLD		•		•		
PYK TEST		•		•		
PYKMR 2,5		•				

10.1.7 Marking multi-cards

	D_NS 10/5	D_NS 10/6	KCSLF-W 11,2/10
Order number of multi-card without printing	GO 801 750	GO 802 250	GO 808 458
Order number of multi-card with printing	GO 811 750	GO 812 250	GO 818 458
Dimensions of tag [mm]	10 x 5	10 x 6	100 x 11,2
Number of multi-cards in box [pcs]	12	12	20
Number of tags in multi-card / in box	72 / 864	60 / 720	12 / 240
PYK 1,5M..MT			•
PYK 2,5..T..A..CCA..EA..C..CT..E..ET	•		•
PYK 4..T..E		•	•
PYK 4..C..E			•
PYK 6..T..C..E			•
PYK 10..T			•
PYK 2,5..2F..2FK..2FLD..3F..2FT..3FT..2FD A..2FD B	•		•
PYK 4 - 2F		•	
PYK 4..S..SLD			
PYK 3S	•		
PYK 3 SLD (NPN, PNP)	•		
PYKMR 2,5			•

Ordering of descriptions

Descriptions you can order on this email: export@elektrobecov.com. In order is necessary specify the size of the terminal, the direction of the description and any specific characters.

Print can be done in two ways:

1. plotter (Multi-cards type DB and DG)
2. thermo-printer (Multi-cards type D_NS and KCSLF-W)



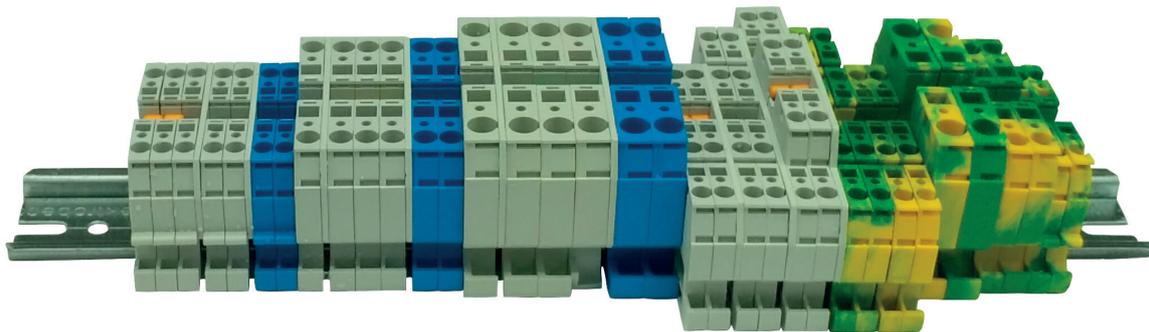
10 SCREWLESS TERMINALS

10.2 Screwless terminal blocks EURO Q

The screwless terminal blocks are offered in the EURO Q series, designed for copper conductors with cross-section from 0,5 to 6 mm².

The screwless terminals are quickly and easily connected and disconnected. The electric contact is comparable with the notched contact. The wire insertion is made by pressure of a suitable tool (such as flat screwdriver) on the spring, which bends it and forces the conductor inside. The use of screwless terminals helps avoid defects caused in standard screw connections due to warming up, vibrations or material deformation.

The terminals can be clamped to DIN Rails TH 35. The terminal connection is possible using no-screw insertion combs in an infinite line (it is possible to insert a neighbouring, following comb to the terminal bridge equipped with one comb).



Design

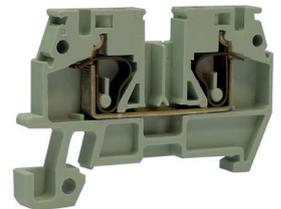
For the reliable clamping of conductors, all types of terminals are fitted with a spring system. The springs ensure a constant pressure on the conductor and thus permanent and high-quality connection between the conductor and the brass bridge. The springs are made of heat-treated steel. The bridge is treated with galvanic coating. The insulation housings of the screwless terminals are made of polyamide PA 6, V0 flammability according to UL 94, halogen-free. The terminals can be installed on TH 35 rails. Connection of terminals is possible using plug-in-bridge 2, 3 and 24 poles. Each terminal has two holes for the insertion of a busbar, which allows to achieve various types of connections.

The conductive connection of the protective conductor to the TH steel rail is done by snap-fitting on the rail, which allows for a faster installation and removal of the EURO Q PE grounding terminals.

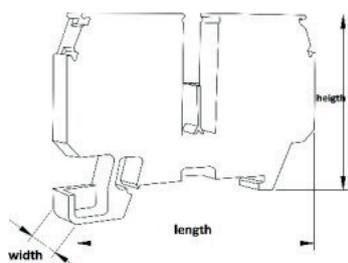
The terminals can be enclosed by using an end cover plate, which provides IP 20 class protection even in a standalone application.

Main parameters

- Conductors connection without screws
- Conductor cross section: 2,5 ÷ 6 mm²
- Insulating body: PA 6
- Cover: IP 20
- Clamping on the DIN Rail TH 35
- Available in grey and blue colour, the PE terminals are available in yellow-green
- Screwless terminals EURO Q are tested according to:
EN 60947-1; EN 60947-7-1; EN 60947-7-2



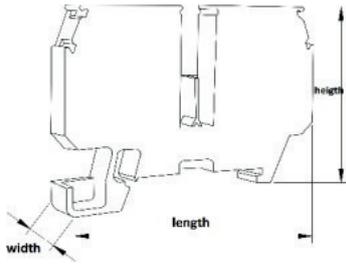
10 SCREWLESS TERMINALS



	EURO Q 2,5	EURO Q 4	EURO Q 6
Rated cross-section [mm ²]	2,5	4	6
Rated current [A]	24	32	41
Short-time withstand current U_{imp} [A]	300	480	720
Rated voltage U_i [V]	630	630	630
Rated impulse withstand voltage U_{imp} [V]	3 500	3 500	3 500
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 2,5	1,5 ÷ 4
	Finely stranded conductor	0,5 ÷ 2,5	1,5 ÷ 4
Stripping length [mm]	12	15	18
Tool for conductor insert/release	Flat screwdriver max. 3,5	Flat screwdriver max. 4,4	Flat screwdriver max. 4,6
Assembly method	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	2	2	2
Number of levels	1	1	1
End cover plate required	YES	YES	YES
Testing	EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 28,5 / 53	6 / 34,5 / 58	8 / 38,5 / 63
Weight [g]	6	10	16
Packing [pcs]	50	50	50
Order number		A 123 212	A 143 212
		A 123 132	A 133 132



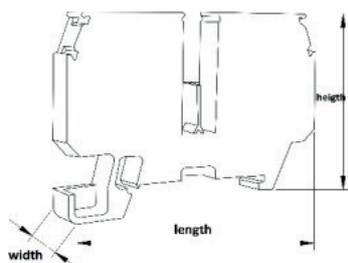
10 SCREWLESS TERMINALS



	EURO Q 2,5 / 1+2	EURO Q 2,5 / 2+2	EURO QD 2,5
Rated cross-section [mm ²]	2,5	2,5	2,5
Rated current [A]	24	24	24
Short-time withstand current U_{imp} [A]	300	300	300
Rated voltage U_i [V]	630	630	500
Rated impulse withstand voltage U_{imp} [V]	3 500	3 500	3 500
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 2,5	0,5 ÷ 2,5
	Finely stranded conductor	0,5 ÷ 2,5	0,5 ÷ 2,5
Stripping length [mm]	12	12	12
Tool for conductor insert/release	Flat screwdriver max. 3,5		
Assembly method	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	3	4	4
Number of levels	1	1	2
End cover plate required	YES	YES	YES
Testing	EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 28,5 / 68,5	5 / 28,5 / 87,5	5 / 37,5 / 98
Weight [g]	9	12	14
Packing [pcs]	25	25	25
Order number	A 223 212	A 323 212	A 123 218
	A 223 132	A 323 132	A 123 138



10 SCREWLESS TERMINALS

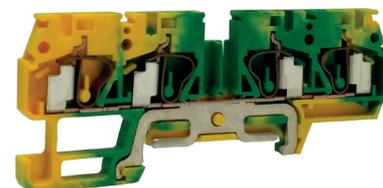
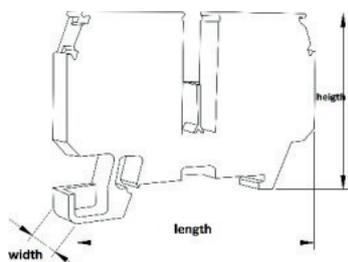


EURO PE Q 2,5

EURO PE Q 4

EURO PE Q 6

Rated cross-section [mm ²]	2,5	4	6
Short-time withstand current U_{imp} [A]	300	480	720
Rated voltage U_i [V]	630	630	630
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 2,5	2,5 ÷ 6
	Finely stranded conductor	0,5 ÷ 2,5	2,5 ÷ 6
Stripping length [mm]	12	15	18
Tool for conductor insert/release	Flat screwdriver max. 3,5	Flat screwdriver max. 4,4	Flat screwdriver max. 4,6
Assembly method	TH 35	TH 35	TH 35
IP code	20	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	2	2	2
Number of levels	1	1	1
End cover plate required	YES	YES	YES
Testing	EN 60947-7-1	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 28,5 / 53	6 / 34,5 / 58	8 / 38,5 / 63
Weight [g]	9	13	19
Packing [pcs]	50	50	50
Order number	A 523 232	A 533 232	A 543 232



EURO PE Q 2,5 / 1+2

EURO PE Q 2,5 / 2+2

Rated cross-section [mm ²]	2,5	2,5
Short-time withstand current U_{imp} [A]	300	300
Rated voltage U_i [V]	630	630
Conductor cross section [mm ²]	Solid conductor	0,5 ÷ 2,5
	Finely stranded conductor	0,5 ÷ 2,5
Stripping length [mm]	12	12
Tool for conductor insert/release	Flat screwdriver max. 3,5	
Assembly method	TH 35	TH 35
IP code	20	20
Operating temperature [°C]	-20 ÷ +55	-20 ÷ +55
Number of clamping points per level	3	4
Number of levels	1	1
End cover plate required	YES	YES
Testing	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 28,5 / 68,5	5 / 28,5 / 87,5
Weight [g]	12	15
Packing [pcs]	25	25
Order number	A 223 232	A 323 232



10 SCREWLESS TERMINALS

10.2.1. Accessories

	EURO Q2,5	EURO Q4	EURO Q6	EURO Q2,5/1+2	EURO Q2,5/2+2	EURO QD2,5/P2H
End cover plate (grey)	B 923 211	B 933 211	B 943 211	B 223 218	B 323 219	B 723 211
Plug-in-bridge 2 poles	C 421 127	C 431 117	C 441 127	-	-	C 421 127
Plug-in-bridge 3 poles	-	C 431 217	-	-	-	-
Plug-in-bridge 24 poles	C 421 131	C 438 017	-	-	-	-
Marking multi-card EURO Q [1pc = 50 tags]	G 210 000 (with printing)					
	G 220 000 (without printing)					

	PE Q2,5	PE Q4	PE Q6	PE Q2,5/1+2	PE Q2,5/2+2
End cover plate (grey)	B 923 211	B 933 211	B 943 211	B 223 218	B 323 219
Marking multi-card EURO Q [1 pc = 50 tags]	G 210 000 (with printing)				
	G 220 000 (without printing)				

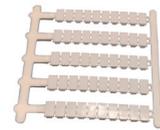
The printing can be prepared according to the customer request. You can enter it via online ordering system on our website or by email. The printing is limited only to the size of the label.



End cover plate EURO Q2,5



End cover plate EURO Q2,5/1+2



Marking multi-card EURO Q



End cover plate EURO Q2,5/2+2



End cover plate EURO Q4



Plug-in-bridge EURO Q2,5



11 POWER TERMINAL BLOCKS BNP

The BNP power terminal blocks are designed for connecting electric circuits using copper conductors with a maximum connecting cross-section of 240 mm. The individual types differ with the nominal cross-section of the copper conductor to be connected and two versions of the bridge: flat and lowered. These terminals are used for connecting conductors with a direct application of the cable eye onto the screw. It is possible to connect conductors without the lug end when accessories are used (V-clamps, V-lugs). The terminals can be installed on DIN rails TH 35.

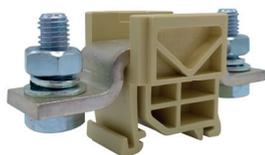


Design

The terminals consist of an insulation body (material PA 6.6, V0 flammability acc. to UL 94, tested with glow wire according to EN 60695-2-11, 960°C), a galvanised connecting copper bridge and steel components (screws, washers). The conductors fitted with lugs under the screw washers are tightened using a socket wrench or a spanner. For safety reasons, the bolts are turned over in the bridge for transport; they have to be turned back during installation. The BNP power terminal blocks have no protection but they can be equipped with an optional protective cover. They can be used at external temperature ranging from -30°C to +150°C.

Additional equipment for terminal blocks:

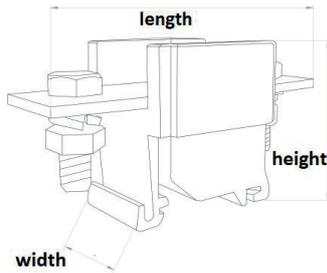
- Side plate (a side barrier separating two neighbouring BNP terminals)
- Double interconnection (in three sizes, with different hole diameters)
- Top cover (preventing contact)
- Plastic holder



Main parameters

- Operating temperature -30 ÷ +150 °C
- Conductor cross section: 70 ÷ 240 mm²
- Cover material: Polyamide PA 6.6, flammability V0
- Clamping on the DIN Rails TH 35
- Available in 2 colours - grey and beige
- Terminals are suitable for connecting copper and aluminium conductors
- Terminals are tested according to the standard: IEC 947-7-1

11 POWER TERMINAL BLOCKS BNP



	BNP 70	BNP 95	BNP 120
Rated cross-section [mm ²]	70	95	120
Rated current [A]	192	232	269
Short-time withstand current [A]	8 400	11 400	14 400
Rated voltage U _i [V]	800	800	800
Rated impulse withstand voltage U _{imp} [V]	3 000	3 000	3 000
Conductor cross section [mm ²]	According to the cable eye	According to the cable eye	According to the cable eye
Tightening torque [Nm]	6	6	10
Tools (Clamping screw)	M 8	M 8	M 10
Assembly method (od DIN rail)	TH 35	TH 35	TH 35
IP code	00 ^I	00 ^I	00 ^I
Operating temperature [°C]	-30 ÷ +150	-30 ÷ +150	-30 ÷ +150
Number of clamping points per level	2	2	2
Number of levels	1	1	1
End cover plate required	NO ^{II}	NO ^{II}	NO ^{II}
Testing	IEC 947-7-1	IEC 947-7-1	IEC 947-7-1
Dimensions [mm] (width / height / length)	42 / 60 / 90	42 / 60 / 90	42 / 60 / 90
Width / height / length of terminal bridge [mm]	25 / 3 / 90	25 / 4 / 90	25 / 5 / 90
Weight [g]	125	163	202
Packing [pcs]	5	5	5
Order number	J 441 980	J 441 990	J 442 000
	J 441 982	J 441 992	J 442 002

^I With using cover IP 20 – according to the installation

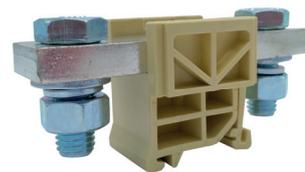
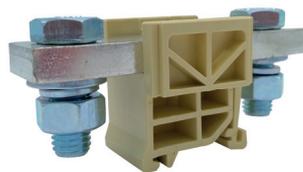
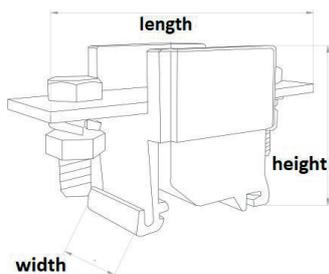
^{II} Depending on the application, it is advisable to use the sidewall

Important warning:

V-lug and V-clamp are not part of BNP. These parts must be ordered separately as other accessories.



11 POWER TERMINAL BLOCKS BNP



	BNP 150	BNP 240
Rated cross-section [mm ²]	150	240
Rated current [A]	309	415
Short-time withstand current [A]	18 000	28 800
Rated voltage U _i [V]	800	800
Rated impulse withstand voltage U _{imp} [V]	3 000	3 000
Conductor cross section [mm ²]	According to the cable eye	According to the cable eye
Tightening torque [Nm]	10	14
Tools (Clamping screw)	M 10	M 12
Assembly method (od DIN rail)	TH 35	TH 35
IP code	00 ¹	00 ¹
Operating temperature [°C]	-30 ÷ +150	-30 ÷ +150
Number of clamping points per level	2	2
Number of levels	1	1
End cover plate required	NO ¹¹	NO ¹¹
Testing	IEC 947-7-1	IEC 947-7-1
Dimensions [mm] (width / height / length)	42 / 65 / 90	42 / 65 / 105
Width / height / length of terminal bridge [mm]	25 / 6 / 90	25 / 10 / 90
Weight [g]	218	375
Packing [pcs]	5	5
Order number	J 442 100	J 442 200
	J 442 102	J 442 202

¹ With using cover IP 20 – according to the installation

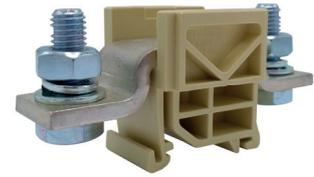
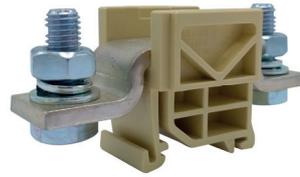
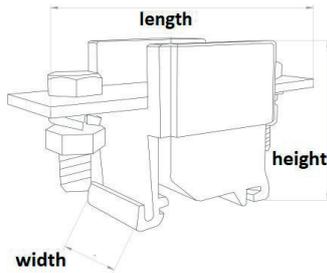
¹¹ Depending on the application, it is advisable to use the sidewall

Important warning:

V-lug and V-clamp are not part of BNP. These parts must be ordered separately as other accessories.



11 POWER TERMINAL BLOCKS BNP



	BNP 120 Lowered bridge	BNP 150 Lowered bridge
Rated cross-section [mm ²]	120	150
Rated current [A]	269	309
Short-time withstand current [A]	14 400	18 000
Rated voltage U _i [V]	800	800
Rated impulse withstand voltage U _{imp} [V]	3 000	3 000
Conductor cross section[mm ²]	According to the cable eye	According to the cable eye
Tightening torque [Nm]	10	10
Tools (Clamping screw)	M 10	M 10
Assembly method (od DIN rail)	TH 35	TH 35
IP code	00 ¹	00 ¹
Operating temperature [°C]	-30 ÷ +150	-30 ÷ +150
Number of clamping points per level	2	2
Number of levels	1	1
End cover plate required	NO ¹¹	NO ¹¹
Testing	IEC 947-7-1	IEC 947-7-1
Dimensions [mm] (width / height / length)	42 / 42,5 / 105	42 / 42,5 / 105
Weight [g]	232	252
Packing [pcs]	5	5
Order number	J 442 001	J 442 101
	On request	On request

¹ With using cover IP 20 – according to the installation

¹¹ Depending on the application, it is advisable to use the sidewall

Important warning:

V-lug and V-clamp are not part of BNP. These parts must be ordered separately as other accessories.



11.1 Accessories

Type	Order number	Using for	Weight [g]	Packing [pcs]
Cover	G 420 000	BNP 70, 95, 120, 150, 240	77	5
Plastic holder (for DIN rail TH 35)	J 473 700	beige	26	1
	J 473 702	grey	26	1
Side part	B 483 145	BNP 70, 95, 120, 150, 240	24	10
Interconnection	C 191 112	BNP 70, 95 (Ø hole 9 mm)	32	5
	C 191 111	BNP 120, 150 (Ø hole 11 mm)	50	10
	C 101 111	BNP 240 (Ø hole 12 mm)	45	10
V-lug	K 305 207	BNP 120, 150 (Ø hole 11 mm)	43	5
	K 305 307	BNP 240 (Ø hole 12 mm)	41	5
V-clamp (16 ÷ 240 mm ²)	K 372 900	BNP 120, 150, 240	66	5



Cover



Side part



Grey plastic holder



Beige plastic holder



Interconnection



V-clamp



V-lug

Connecting conductors with cable eye

When conductors with lugs are used, there are two BNP terminal block versions that can be used:

- With a flat bridge (in nominal sizes of 70, 95, 120, 150 and 240 mm²)
- With a lowered bridge (in nominal sizes of 120 and 150 mm²)

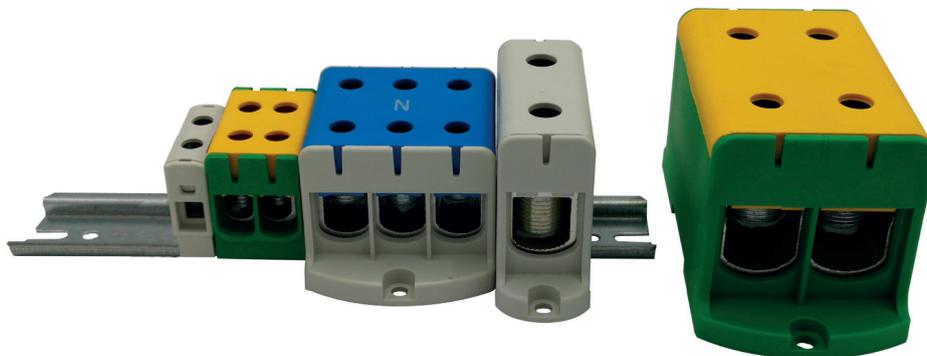
Connecting conductors using a V-clamp

When conductors are not ended with lugs, they can only be connected to BNP terminals using appropriate accessories – transitional V-lug and V-clamp.

The transitional V-lug can be used for BNP terminals both with a flat bridge and with a lowered bridge. When the transitional V-lug and V-clamp are installed on a BNP terminal with a lowered bridge, it is possible to use a protective cover on the terminal, while the protective cover can not be used when the V-lug and V-clamp are installed on a BNP terminal with a flat bridge. The side part and interconnection can also be applied to BNP terminals equipped with a transitional V-lug and V-clamp.

12 UNIVERSAL TERMINAL BLOCKS ETB

Universal ETB terminal blocks have a large range of connectors (2,5 ÷ 240 mm²) with possible inputs 2, 4, 6. Terminal block with rated cross section 50 mm² we also offer in a 3-pole design. The terminals are composed of an electro-conductive part and insulating cover. Terminals are made of an aluminium alloy and tin-plated. Connections can be made with aluminum and copper conductors. Insulating properties ensure the cover made of polyamide (PA). Terminal blocks can be clamping on the DIN Rail TH 35, type ETB 240/1, ETB 240/1x2 and ETB 240/1x3 can be using only on the plate. Universal terminal blocks ETB are testing by Ente Certificazione Macchine Srl according to EN 61238-1 and EN 60947-7-1.



Using

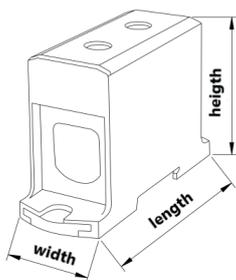
After stripping, conductors are attached to the terminals using a screw connection. The screw is tightened with a hex key (inbus), using size 4, 5, 6 or 8 according to the type of the terminal. The screw touches the conductor, therefore is necessary to use ferrule for stranded conductors. The attachment part of the screw is specifically shaped for better tightening of the attached conductor. The terminals can be installed on the DIN Rail TH 35 (except size 240), bigger size of terminal blocks you can attach on the plate (see the tables with technical parameters). ETB clamping on the DIN rail is done with end clamps RSA L35 or RSA L35-2 (bigger conductor cross section).

Main parameteres

- Operating temperature max. +80 °C
- Conductor cross section: 16 ÷ 240 mm²
- Insulating body: Polyamide PA
- Pollution degree: 3
- Clamping on the DIN Rails TH 35, except the size 240 (for ETB 95 and a bigger size you can use the plate)
- Colours: grey, blue and yellow-green
- Tool: Inbus
- Terminals are suitable for connecting copper and aluminium wires
- Terminals are tested according to the standard: EN 61238-1 and EN 60947-7-1



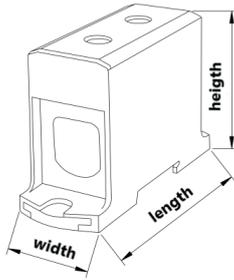
12 UNIVERSAL TERMINAL BLOCKS ETB



	ETB 16/1	ETB 50/1	ETB 95/1	
Rated current [A] (Cu/Al)	85 / 85	160 / 145	245 / 220	
Rated voltage U_i [V]	690	750	750	
Conductor cross section [mm ²]	1,5 ÷ 16	2,5 ÷ 50	16 ÷ 95	
Tightening torque [Nm]	1,5 (1,5 mm ²)	-	-	
	3,5 (2,5 ÷ 6 mm ²)	4 (2,5 ÷ 4 mm ²)	-	
	7 (10 ÷ 16 mm ²)	12 (6 ÷ 50 mm ²)	14 (16 ÷ 95 mm ²)	
Tool	Inbus number 4	Inbus number 5	Inbus number 5	
Assembly method	TH 35	TH 35	TH 35 / On the plate	
IP code	20	20	20	
Operating temperature [°C]	< 80	< 80	< 80	
Number of clamping points per level	2	2	2	
Number of poles	1	1	1	
End cover plate required	NO	NO	NO	
Testing	EN 60947-7-1	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	13,5 / 40 / 42	17,8 / 43 / 49	24 / 49 / 86	
Weight [g]	15	35	90	
Packing [pcs]	1	1	1	
Order number	2 inputs 	UK1016.21	UK1050.21	UK1095.21
	2 inputs 	UK1016.12	UK1050.12	UK1095.12
	2 inputs 	UK1016.24	UK1050.24	UK1095.24



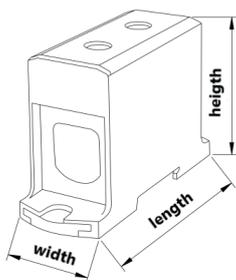
12 UNIVERSAL TERMINAL BLOCKS ETB



	ETB 150/1	ETB 240/1	
Rated current [A] (Cu/Al)	320 / 290	425 / 380	
Rated voltage U_i [V]	750	750	
Conductor cross section [mm ²]	35 ÷ 150	35 ÷ 240	
Tightening torque [Nm]	14 (35 ÷ 95 mm ²)	14 (35 ÷ 70 mm ²)	
	24 (120 ÷ 150 mm ²)	40 (95 ÷ 240 mm ²)	
Tool	Inbus number 8	Inbus number 8	
Assembly method	TH 35 / On the plate	On the plate	
IP code	20	20	
Operating temperature [°C]	< 80	< 80	
Number of clamping points per level	2	2	
Number of poles	1	1	
End cover plate required	NO	NO	
Testing	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	29,5 / 59 / 95	37,5 / 67 / 130	
Weight [g]	160	305	
Packing [pcs]	1	1	
Order number	2 inputs 	UK1150.21	UK1240.21
	2 inputs 	UK1150.12	UK1240.12
	2 inputs 	UK1150.24	UK1240.24



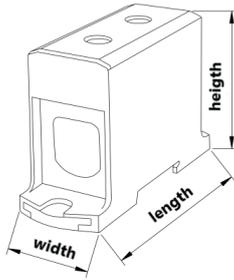
12 UNIVERSAL TERMINAL BLOCKS ETB

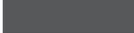


	ETB 50/1x2	ETB 95/1x2	
Rated current [A] (Cu/Al)	160 / 145	245 / 220	
Rated voltage U_i [V]	750	750	
Conductor cross section [mm ²]	2 x (2,5 ÷ 50)	2 x (16 ÷ 95)	
Tightening torque [Nm]	4 (2,5 ÷ 4 mm ²) 12 (6 ÷ 50 mm ²)	14 (16 ÷ 95 mm ²)	
Tool	Inbus number 5	Inbus number 5	
Assembly method	TH 35	TH 35 / On the plate	
IP code	20	20	
Operating temperature [°C]	< 80	< 80	
Number of clamping points per level	4	4	
Number of poles	1	1	
End cover plate required	NO	NO	
Testing	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	29,8 / 43 / 49	42 / 49 / 86	
Weight [g]	60	165	
Packing [pcs]	1	1	
Order number	4 inputs 	UK2050.21	UK2095.21
	4 inputs 	UK2050.12	UK2095.12
	4 inputs 	UK2050.24	UK2095.24



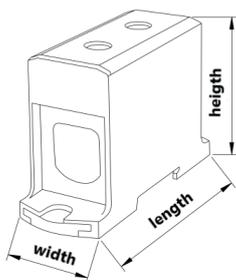
12 UNIVERSAL TERMINAL BLOCKS ETB



	ETB 150/1x2	ETB 240/1x2	
Rated current [A] (Cu/Al)	320 / 290	425 / 380	
Rated voltage U_i [V]	750	750	
Conductor cross section [mm ²]	2 x (35 ÷ 150)	2 x (35 ÷ 240)	
Tightening torque [Nm]	14 (35 ÷ 95 mm ²) 24 (120 ÷ 150 mm ²)	14 (35 ÷ 70 mm ²) 40 (95 ÷ 240 mm ²)	
Tool	Inbus number 8	Inbus number 8	
Assembly method	TH 35 / On the plate	On the plate	
IP code	20	20	
Operating temperature [°C]	< 80	< 80	
Number of clamping points per level	4	4	
Number of poles	1	1	
End cover plate required	NO	NO	
Testing	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	51,5 / 59 / 95	64 / 67 / 130	
Weight [g]	290	550	
Packing [pcs]	1	1	
Order number	4 inputs 	UK2150.21	UK2240.21
	4 inputs 	UK2150.12	UK2240.12
	4 inputs 	UK2150.24	UK2240.24



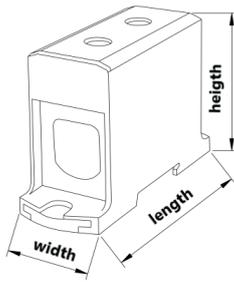
12 UNIVERSAL TERMINAL BLOCKS ETB



	ETB 50/1x3	ETB 50/L1, L2, L3	
Rated current [A] (Cu/Al)	160 / 145	160 / 145	
Rated voltage U_i [V]	750	750	
Conductor cross section [mm ²]	3 x (2,5 ÷ 50)	3 x (2,5 ÷ 50)	
Tightening torque [Nm]	4 (2,5 ÷ 4 mm ²) 12 (6 ÷ 50 mm ²)	4 (2,5 ÷ 4 mm ²) 12 (6 ÷ 50 mm ²)	
Tool	Inbus number 5	Inbus number 5	
Assembly method	TH 35	TH 35	
IP code	20	20	
Operating temperature [°C]	< 80	< 80	
Number of clamping points per level	6	6	
Number of poles	1	3	
End cover plate required	NO	NO	
Testing	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	49 / 43 / 49	49 / 43 / 48	
Weight [g]	86	96	
Packing [pcs]	1	1	
Order number	3 poles 	-	UK3350.21
	3 inputs 	UK3050.21	-
	3 inputs 	UK3050.12	-
	3 inputs 	UK3050.24	-



12 UNIVERSAL TERMINAL BLOCKS ETB



	ETB 95/1x3	ETB 150/1x3	ETB 240/1x3	
Rated current [A] (Cu/Al)	245 / 220	320 / 290	425 / 380	
Rated voltage U _i [V]	750	750	750	
Conductor cross section [mm ²]	16 ÷ 95	35 ÷ 150	35 ÷ 240	
Tightening torque [Nm]	14 (16 ÷ 95 mm ²)	14 (35 ÷ 95 mm ²)	14 (35 ÷ 70 mm ²)	
		24 (120 ÷ 150 mm ²)	40 (95 ÷ 240 mm ²)	
Tool	Inbus number 5	Inbus number 8	Inbus number 8	
Assembly method	TH 35 / On the plate	TH 35 / On the plate	On the plate	
IP code	20	20	20	
Operating temperature [°C]	< 80	< 80	< 80	
Number of clamping points per level	6	6	6	
Number of poles	1	1	1	
End cover plate required	NO	NO	NO	
Testing	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	EN 61238-1 / EN 60947-7-1	
Dimensions [mm] (width / height / length)	60 / 49 / 86	74 / 59 / 95	94 / 67 / 130	
Weight [g]	165	290	550	
Packing [pcs]	1	1	1	
Order number	3 inputs 	UK3095.21	UK3150.21	UK3240.21
	3 inputs 	UK3095.12	UK3150.12	UK2340.12
	3 inputs 	UK3095.24	UK3150.24	UK2340.24



13 UNIVERSAL TERMINAL BLOCKS UTB

The application of UTB universal terminal blocks is very broad. For example, they are designed for applications in distributing equipment, or as testing terminals. They can also be used in the applications of industrial automation, as well as building installations. They are suitable for all types of aluminium and copper conductors, with a cross-section from 1,5 mm² to 150 mm². UTB conductor body is made of current conductive aluminium with galvanic coating that ensures the connection of an aluminium and copper conductor in a single terminal without conflict. For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevent the layer oxidations, prevents electrolytic corrosion and provides long-term protection.

The main advantage of UTB terminals is the high variability of connectivity with branching options. The dimensions of the terminals are quite small because the connection sockets are placed one above the other, which increases the number of terminals in a row while preserving the same spacing of the terminal bus bar. The terminals can be clamped to the DIN rail TH 35. The operating temperature of the UTB terminals is from -25 ÷ +100°C. The casing is made of PA polyamide.



Design

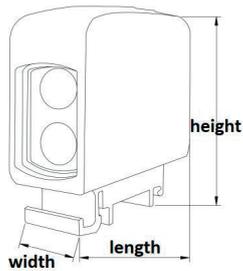
The terminals are made of factory-finished aluminium alloy (some types of terminals are made of brass, also with galvanic finish). The casing is made of PA polyamide. The terminals allow the connection of copper and aluminium conductors. Both types of conductors can be connected in a single terminal.



Main parameters

- Operating temperature -25 ÷ +100 °C
- Conductor cross section: 16 ÷ 150 mm²
- Cover material: Polyamide PA 6.6, flammability V0
- Clamping on the DIN Rails TH 35
- Available in 4 colours (grey, blue, red and yellow-green)
- Tools: inbus
- Terminals are suitable for connecting copper and aluminium conductors
- Terminals are tested according to the standard: IEC 60947-7-1

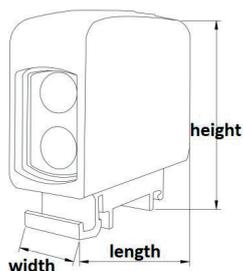
13 UNIVERSAL TERMINAL BLOCKS UTB

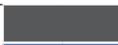


		UTB 16	UTB 50	UTB 70
Rated cross-section [mm ²]		16	50	70
Rated current [A]		82	160	192
Rated voltage U _i [V]		690	690	690
Conductor cross section [mm ²]	Input	1 x 1,5 ÷ 16	1 x 1,5 ÷ 50	1 x 16 ÷ 70
	Output	1 x 1,5 ÷ 16	1 x 1,5 ÷ 50	1 x 16 ÷ 70
Tightening torque [Nm]		1,5 (1,5 mm ²)	1,5 (1,5 mm ²)	-
		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)	-
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)	-
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (16 mm ²)
		-	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		-	18 (50 mm ²)	18 (50 ÷ 70 mm ²)
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35	TH 35
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points		2	2	2
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		13 / 40 / 42	17 / 43 / 50	23 / 57 / 59
Weight [g]		20	38	97
Packing [pcs]		1	1	1
Order number		U1016.21	U1050.21	U1070.21
		U1016.12	U1050.12	U1070.12
		U1016.16	U1050.16	U1070.16
		U1016.24	U1050.24	U1070.24



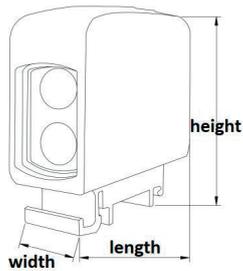
13 UNIVERSAL TERMINAL BLOCKS UTB

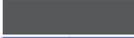


	UTB 95	UTB 150	
Rated cross-section [mm ²]	95	150	
Rated current [A]	245	320	
Rated voltage U _i [V]	690	690	
Conductor cross section [mm ²]	Input	1 x 35 ÷ 95	
	Output	1 x 35 ÷ 95	
Tightening torque [Nm]		12 (35 mm ²)	
		18 (50 ÷ 70 mm ²)	
		22 (95 mm ²)	
Tools		40 (150 mm ²)	
		-	
Assembly method (on DIN rail)	Inbus	Inbus	
Operating temperature [°C]	TH 35	TH 35	
Number of clamping points	-25 ÷ +100	-25 ÷ +100	
Number of levels	2	2	
End cover plate required	1	1	
Testing	NO	NO	
Dimensions [mm] (width / height / length)	IEC 60947-7-1	IEC 60947-7-1	
Weight [g]	23 / 57 / 59	35 / 67 / 58	
Packing [pcs]	90	155	
Order number	1	1	
		U1095.21	U1150.21
		U1095.12	U1150.12
		U1095.16	U1150.16
		U1095.24	U1150.24



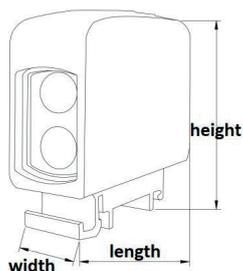
13 UNIVERSAL TERMINAL BLOCKS UTB



		UTB 2x16	UTB 4x16	UTB 2x35
Rated cross-section [mm ²]		16	16	35
Rated current [A]		82	82	125
Rated voltage U _i [V]		690	690	690
Conductor cross section [mm ²]	Input	2 x 2,5 ÷ 16	4 x 2,5 ÷ 16	2 x 6 ÷ 35
	Output	2 x 2,5 ÷ 16	4 x 2,5 ÷ 16	2 x 6 ÷ 35
Tightening torque [Nm]		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)	-
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)	5 (6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		-	-	12 (25 ÷ 35 mm ²)
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35	TH 35
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points		4	8	4
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		17 / 38 / 50	23 / 57 / 59	23 / 57 / 59
Weight [g]		82	92	94
Packing [pcs]		1	1	1
Order number		U2016.21	U4016.21	U2035.21
		U2016.12	U4016.12	U2035.12
		U2016.16	U4016.16	U2035.16
		U2016.24	U4016.24	U2035.24



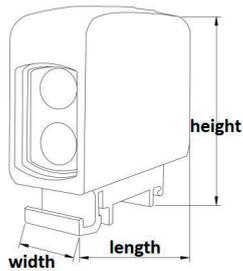
13 UNIVERSAL TERMINAL BLOCKS UTB



		UTB 70/4x16	UTB 70/2x35	UTB 95/2x35
Rated cross-section [mm ²]		70 / 16	70 / 35	95 / 35
Rated current [A]		192 / 82	192 / 125	245 / 125
Rated voltage U _i [V]		690	690	690
Conductor cross section [mm ²]	Input	1 x 16 ÷ 70	1 x 16 ÷ 70	1 x 35 ÷ 95
	Output	4 x 2,5 ÷ 16	2 x 6 ÷ 35	2 x 6 ÷ 35
Tightening torque [Nm]		2,5 (2,5 mm ²)	-	-
		5 (4 ÷ 6 mm ²)	5 (6 mm ²)	5 (6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		-	-	22 (95 mm ²)
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35	TH 35
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points		5	3	3
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		23 / 57 / 59	23 / 57 / 59	23 / 57 / 59
Weight [g]		88	93	92
Packing [pcs]		1	1	1
Order number		U1070KK21	U1070K21	U1095K21
		U1070KK12	U1070K12	U1095K12
		U1070KK16	U1070K16	U1095K16
		U1070KK24	U1070K24	U1095K24



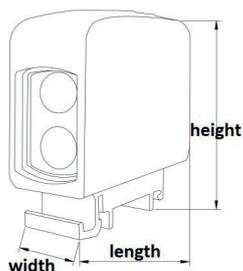
13 UNIVERSAL TERMINAL BLOCKS UTB



		UTB 35/2x16	UTB 2x35/4x16
Rated cross-section [mm ²]		35 / 16	35 / 16
Rated current [A]		125 / 82	125 / 82
Rated voltage U _i [V]		690	690
Conductor cross section [mm ²]	Input	1 x 6 ÷ 35	2 x 6 ÷ 35
	Output	2 x 2,5 ÷ 16	4 x 2,5 ÷ 16
Tightening torque [Nm]		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
Tools		Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points		3	6
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		17 / 38 / 50	23 / 57 / 59
Weight [g]		82	92
Packing [pcs]		1	1
Order number		U1035K21	U2035K21
		U1035K12	U2035K12
		U1035K16	-
		U1035K24	U2035K24



13 UNIVERSAL TERMINAL BLOCKS UTB



UTB 70/2x35 PIN

UTB 95/2x35 PIN

Rated cross-section [mm ²]	35	35	
Rated current [A]	192 / 125	245 / 125	
Rated voltage U _i [V]	690	690	
Conductor cross section [mm ²]	Input	-	
	Output	2 x 6 ÷ 35	
Tightening torque [Nm]	5 (6 mm ²)	5 (6 mm ²)	
	7 (10 -16 mm ²)	7 (10 -16 mm ²)	
	12 (25 – 35 mm ²)	12 (25 – 35 mm ²)	
	18 (50 – 70 mm ²)	18 (50 – 70 mm ²)	
Tools	-	22 (95 mm ²)	
	Inbus	Inbus	
Assembly method (on DIN rail)	TH 35	TH 35	
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100	
Number of clamping points	2	2	
Number of levels	1	1	
End cover plate required	NO	NO	
Testing	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	23 / 57 / 59 (49 mm reducing PIN)	23 / 57 / 59 (49 mm reducing PIN)	
Weight [g]	93	132	
Packing [pcs]	1	1	
Order number		U1070KR21	U1095KR21
		U1070KR12	U1095KR12
		U1070KR16	U1095KR16
		U1070KR24	U1095KR24



14 UNIVERSAL TERMINAL BLOCKS UTB-S

The application of the UTB-S universal terminals is very broad. For example, they can be used in distribution equipment. They are suitable for all types of aluminium and copper conductors, with a cross-section from 6 mm² to 240 mm². The main advantage of the UTB-S terminals is the high variability of connectivity with branching options. The dimensions of the terminals are quite small because the connection sockets are placed one above the other, which increases the number of terminals in a row while preserving the same spacing of the terminal bus bar. The terminals can be clamped to the DIN rail TH 35; larger cross-sections are designed for installation on the plate. The operating temperature of the UTB-S terminals is from -25 ÷ +100°C.



Design

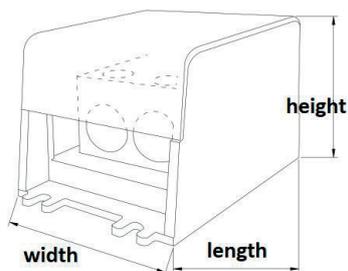
The terminals are made of factory-finished aluminium alloy (some types of terminals are made of brass, also with galvanic finishing). The casing is made of PA polyamide and the cover is made of PC polycarbonate. The terminals allow the connection of copper and aluminium conductors. Both types of conductors can be connected in a single terminal.



Main parameters

- Operating temperature - 25 ÷ +100 °C
- Conductor cross section: 16 ÷ 240 mm²
- Insulating body: Polyamide PA 6.6, flammability V0
- Assembly method: Rails TH 35 / on the plate
- Available in 3 colours (grey, blue and yellow)
- Tools: Inbus
- High connectivity variability
- Terminals are suitable for connecting copper and aluminium conductors
- Terminals are tested according to the standard: IEC 60947-7-1

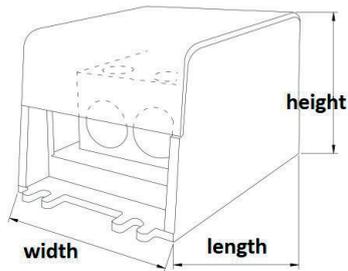
14 UNIVERSAL TERMINAL BLOCKS UTB-S



		UTB-S 2x95	UTB-S 2x95A	UTB-S 2x95/6x35
Rated cross-section [mm ²]		95	95 / 16	95 / 35
Rated current [A]		490	490 / 82	490 / 125
Rated voltage U _i [V]		690	690	690
Conductor cross section [mm ²]	Input	2 x 6 ÷ 95	2 x 6 ÷ 95	2 x 6 ÷ 95
	Output	-	1 x 2,5 ÷ 16	-
		2 x 6 ÷ 95	2 x 6 ÷ 95	6 x 6 ÷ 35
		-	1 x 2,5 ÷ 16	-
		-	2,5 (2,5 mm ²)	-
		5 (6 mm ²)	5 (4 ÷ 6 mm ²)	5 (6 mm ²)
Tightening torque [Nm]		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		22 (95 mm ²)	22 (95 mm ²)	22 (95 mm ²)
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35 / on the plate	TH 35 / on the plate	TH 35 / on the plate
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		4	6	8
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		56 / 60 / 79	56 / 60 / 79	56 / 60 / 79
Weight [g]		184	186	175
Packing [pcs]		1	1	1
Order number		U2095.21	U2095A21	U2095K21
		U2095.12	U2095A12	U2095K12
		U2095.26	U2095A26	U2095K26



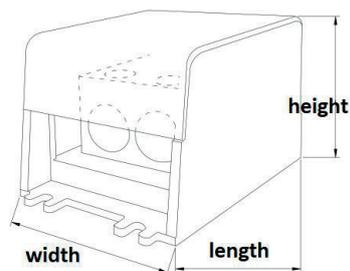
14 UNIVERSAL TERMINAL BLOCKS UTB-S



		UTB-S 2x240	UTB-S 2x240A
Rated cross-section [mm ²]		240	240 / 25
Rated current [A]		850	850 / 101
Rated voltage U _i [V]		690	690
Conductor cross section [mm ²]	Input	2 x 35 ÷ 240	2 x 35 ÷ 240
	Output	2 x 35 ÷ 240	2 x 35 ÷ 240
		-	1 x 4 ÷ 25
		-	2 x 35 ÷ 240
		-	1 x 4 ÷ 25
		-	5 (4 ÷ 6 mm ²)
		-	7 (10 ÷ 16 mm ²)
Tightening torque [Nm]		12 (35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)
		40 (150 ÷ 240 mm ²)	40 (150 ÷ 240 mm ²)
Tools		Inbus	Inbus
Assembly method (on DIN rail)		On the plate	On the plate
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		4	6
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		84 / 78 / 146	84 / 78 / 146
Weight [g]		578	574
Packing [pcs]		1	1
Order number		U2240P21	U2240AP21
		U2240P12	U2240AP12
		U2240P26	U2240AP26



14 UNIVERSAL TERMINAL BLOCKS UTB-S



UTB-S 2x240/3x120

UTB-S 2x240/8x35

Rated cross-section [mm ²]	240 / 120	240 / 35	
Rated current [A]	850 / 269	850 / 125	
Rated voltage U _i [V]	690	690	
Conductor cross section [mm ²]	Input	2 x 35 ÷ 240	
	Output	3 x 25 ÷ 120	
	-	5 (6 mm ²)	
	-	7 (10 ÷ 16 mm ²)	
Tightening torque [Nm]	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	
	18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)	
	22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)	
	40 (150 ÷ 240 mm ²)	40 (150 ÷ 240 mm ²)	
Tools	Inbus	Inbus	
Assembly method (on DIN rail)	On the plate	On the plate	
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100	
Number of clamping points per level	5	10	
Number of levels	1	1	
End cover plate required	NO	NO	
Testing	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	84 / 78 / 146	84 / 78 / 146	
Weight [g]	598	566	
Packing [pcs]	1	1	
Order number		U2240KP21	U2240DP21
		U2240KP12	U2240DP12
		U2240KP26	U2240DP26



15 DISTRIBUTION BLOCKS

Distribution blocks are supplied in the OJL, DTS and DTB series

OJL distribution blocks are used for branching conductors from one larger cross-section to several conductors with a smaller cross-section. The blocks are offered in two versions with the nominal connecting cross-section of 70 mm² (six outputs) and 120 mm² (eleven outputs), and they are designed for all types of Al and Cu conductors. Screws are tightened with hex key (inbus). The blocks can be attached to the DIN rail, or on the plate using fastening screws. The maximum operating temperature is 80°C. The protection degree for all types is IP 20. The distribution blocks have an easily openable top cover made of dark transparent plastic that, however, does not need to be opened for the assembly and disassembly of the output conductors. OJL distribution blocks have been tested in compliance with EN 61238-1 and EN 60947-7-1.



DTS distribution blocks are used for the connection of four- and five-conductors cables in electric installations. They provide power distribution in various applications. They are offered in versions for all types of Al and Cu conductors from 1,5 to 150 mm². The blocks can be attached on the plate or on the DIN rail TH using a holder. Material: casing - PA6 polyamide, V0, cover – transparent polycarbonate – PC. Operating temperature -25 ÷ + 100°C.

The most frequent application of **DTB distribution blocks** in electric installations: electric distribution, automatic control, measuring and also building installations. They allow concurrent connection and branching of aluminium and copper conductors with various cross-sections. They are offered in versions for all types of Al and Cu conductors from 1,5 to 120 mm². The blocks can be attached on the plate or on the DIN rail TH using a holder. Screws are tightened with the Allen wrench. Operating temperature: -25 ÷ + 100°C. The protection for all versions is IP 20.



Branching terminal boards are designed for multiple branching, multiple adaptors or mutual connection of conductors with various cross-sections (from 2,5 mm² to 95 mm² for terminal board series 2; from 1,5 mm² to 16 mm² for terminal board series 3). The connecting and branching part of the terminal board consists of a connecting brass bridge (galvanised) and steel fastening clamps (galvanised).

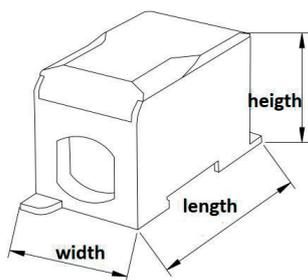
Design

The terminals are made of factory-finished aluminium alloy (some types of terminals are made of brass, also with galvanic finish). Material: casing - PA6 polyamide, V0, cover – transparent polycarbonate – PC. Operating temperature -25 ÷ + 100°C. The block can be attached on the plate or on the DIN rail TH using a holder. Protection level: IP 20.

Main parameters

- Operating temperature -25 ÷ +100 °C (OJL to 80 °C)
- Conductor cross section: 2,5 ÷ 120 mm² (1,5 ÷ 150 mm² for DTS)
- Insulating body: Polyamide PA 6.6, flammability V0
- Cover: IP 20
- Assembly method: Rails TH 35 / on the plate
- Colours: grey and black (DTB grey, blue and yellow)
- Tools: Inbus / screwdriver
- High connectivity variability
- Terminals are suitable for connecting copper and aluminium wires
- Terminals are tested according to the standard: IEC 60947-7-1

15.1 Distribution blocks OJL



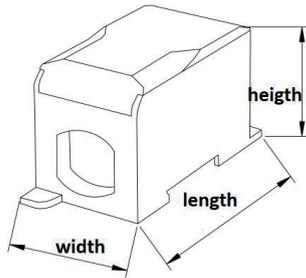
	OJL 70	OJL 120
Rated cross-section [mm ²]	70 (Input)	120 (Input)
Rated current [A]	160 / 200	250 / 280
Rated voltage U _i [V]	1 000	1 000
Input	1 x 10 ÷ 70	1 x 35 ÷ 120
Conductor cross section [mm ²]	6 x 2,5 ÷ 16	5 x 2,5 ÷ 16
	-	4 x 2,5 ÷ 10
Output	-	2 x 6 ÷ 35
Tightening torque [Nm]	3 (2,5 ÷ 16 mm ²)	3 (2,5 ÷ 16 mm ²)
	6 (25 ÷ 35 mm ²)	6 (25 ÷ 35 mm ²)
	10 (50 ÷ 70 mm ²)	10 (50 ÷ 70 mm ²)
Tools	Inbus	Inbus
Assembly method (on DIN rail)	TH 35 / on the plate	TH 35 / on the plate
IP code	20	20
Operating temperature [°C]	< 80	< 80
Number of clamping points per level	7	12
Number of levels	1	1
End cover plate required	NO	NO
Testing	EN 60947-7-1	EN 60947-7-1
Dimensions [mm] (width / height / length)	32,4 / 46 / 75,8	44,4 / 51 / 97
Weight [g]	80	180
Packing [pcs]	24	12
Order number	VG03-0006	VG03-0003

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS

15.2 Distribution blocks DTS

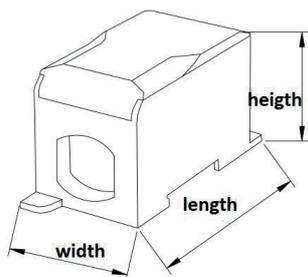


	DTS 5x16	DTS 5x35	DTS 5x50	
Rated cross-section [mm ²]	16	35	50	
Rated current [A]	82	125	160	
Rated voltage U _i [V]	690	690	690	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000	6 000	
Conductor cross section [mm ²]	Input	1 x 1,5 ÷ 16 (1 pole)	1 x 1,5 ÷ 35 (1 pole)	1 x 1,5 ÷ 50 (1 pole)
	Output	1 x 1,5 ÷ 16 (1 pole)	1 x 1,5 ÷ 35 (1 pole)	1 x 1,5 ÷ 50 (1 pole)
Tightening torque [Nm]	1,5 (1,5 mm ²)	1,5 (1,5 mm ²)	1,5 (1,5 mm ²)	
	2,5 (2,5 mm ²)	2,5 (2,5 mm ²)	2,5 (2,5 mm ²)	
	5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)	
	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	
	-	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	
	-	-	18 (50 mm ²)	
Tools	Inbus	Inbus	Inbus	
Assembly method (on DIN rail)	TH 35 / on the plate	TH 35 / on the plate	TH 35 / on the plate	
IP code	20	20	20	
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100	+25 ÷ +100	
Number of clamping points per level	10 (5 poles)	10 (5 poles)	10 (5 poles)	
Number of levels	1	1	5	
End cover plate required	NO	NO	NO	
Testing	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	65 / 46 / 101	65 / 46 / 101	65 / 46 / 101	
Weight [g]	119	142	176	
Packing [pcs]	1	1	1	
Order number	UD516LW	UD535LW	UD550LW	

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



**DTS 120/1x120
+ 2x16**

DTS 120/9x16

DTS 120/4x35

Rated cross-section [mm ²]		120	120	120
Rated current [A]		250	250	250
Rated voltage U _i [V]		690	690	690
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000	6 000
Conductor cross section [mm ²]	Input	1 x 35 ÷ 120	1 x 35 ÷ 120	1 x 35 ÷ 120
	Output	1 x 35 ÷ 120 2 x 2,5 ÷ 16	9 x 2,5 ÷ 16 -	4 x 6 ÷ 35 -
Tightening torque [Nm]		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)	-
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)	5 (6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
	22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)	
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35 ¹ / on the plate	TH 35 ¹ / on the plate	TH 35 ¹ / on the plate
IP code		20	20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		4	10	5
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		42,5 / 66 / 85	42,5 / 66 / 85	42,5 / 66 / 85
Weight [g] (1 / 4 / 5 poles)		172 / 649 / 821	164 / 615 / 729	168 / 628 / 796
Packing [pcs]		1	1	1
Order number	1 pc = 1 pole	UD1120.3	UD1120.9	UD1120.4
	1 pc = 4 poles	UD4120.3	UD4120.9	UD4120.4
	1 pc = 5 poles	UD5120.3	UD5120.9	UD5120.4

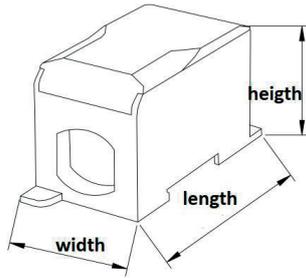


¹ The block can be mounted on a DIN rail using a holder.

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



**DTS 120/2x50
+3x16**

**DTS 70/7x6
+2x25+2x16**

DTS 35/8x16

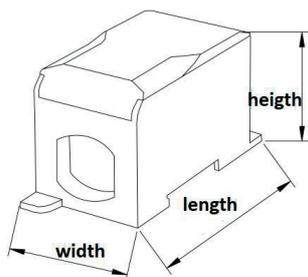
Rated cross-section [mm ²]	120	70	35	
Rated current [A]	250	160	125	
Rated voltage U _i [V]	690	500	450	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000		
Conductor cross section [mm ²]	Input	1 x 35 ÷ 120	1 x 25 ÷ 70	1 x 10 ÷ 35
	Output	2 x 10 ÷ 50	2 x 10 ÷ 25	8 x 2,5 ÷ 16
		3 x 2,5 ÷ 16	2 x 6 ÷ 16	-
Tightening torque [Nm]		-	7 x 1,5 ÷ 6	-
		2,5 (2,5 mm ²)	1,0 (6 mm ²)	2,5 (2,5 mm ²)
		5 (4 ÷ 6 mm ²)	1,2 (16 mm ²)	5 (4 ÷ 6 mm ²)
		7 (10 ÷ 16 mm ²)	12 (25 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	18 (35 ÷ 70 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	-	-
Tools	Inbus	Inbus	Inbus / spanner	
Assembly method (on DIN rail)	TH 35 ¹ / on the plate	TH 35 ¹ / on the plate	TH 35 ¹ / on the plate	
IP code	20	20	20	
Operating temperature [°C]	+25 ÷ +100	-25 ÷ +100	-25 ÷ +100	
Number of clamping points per level	6	12	9	
Number of levels	1	1	1	
End cover plate required	NO	NO	NO	
Testing	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	42,5 / 66 / 85	42,5 / 66 / 85	42,5 / 66 / 85	
Weight [g] (1 / 4 / 5 poles)	172 / 642 / 813	191 / 725 / 918	151 / 558 / 709	
Packing [pcs]	1	1	1	
Order number	1 pc = 1 pole	UD1120.5	UD1070	UD1035
	1 pc = 4 poles	UD4120.5	UD4070	UD4035
	1 pc = 5 poles	UD5120.5	UD5070	UD5035



¹ The block can be mounted on a DIN rail using a holder.

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.





	DTS 150/1x150	DTS 95/1x95	
Rated cross-section [mm ²]	150	95	
Rated current [A]	320	245	
Rated voltage U _i [V]	690	500	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000	
Conductor cross section [mm ²]	Input	1 x 25 ÷ 150	
	Output	1 x 25 ÷ 150	
Tightening torque [Nm]	12 (25 ÷ 35 mm ²)	7 (10 ÷ 16 mm ²)	
	18 (50 ÷ 70 mm ²)	12 (25 ÷ 35 mm ²)	
	22 (95 ÷ 120 mm ²)	18 (50 ÷ 70 mm ²)	
	40 (150 mm ²)	22 (95 mm ²)	
Tools	Inbus	PH 2	
Assembly method (on DIN rail)	TH 35 ¹ / on the plate	TH 35 ¹ / on the plate	
IP code	20	20	
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100	
Number of clamping points per level	2	2	
Number of levels	1	1	
End cover plate required	NO	NO	
Testing	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	42,5 / 66 / 85	42,5 / 66 / 85	
Weight [g] (1 / 4 / 5 poles)	158 / 587 / 745	183 / 685 / 868	
Packing [pcs]	1	1	
Order number	1 pc = 1 pole	UD1150	UD1095
	1 pc = 4 poles	UD4150	UD4095
	1 pc = 5 poles	UD5150	UD5095

15.2.1 Accessories DTS

Holder for DTS blocks on rail TH 35

- Used to fastening DTS blocks to DIN rail
- Weight [g]: 6
- Order number: UD0001.21



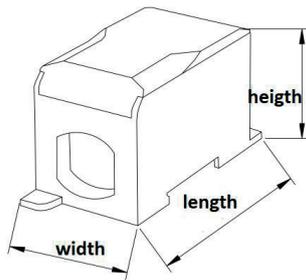
¹ The block can be mounted on a DIN rail using a holder.

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS

15.3 Distribution blocks DTB

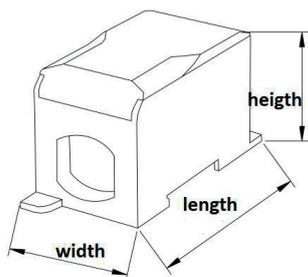


	DTB 3x16	DTB 35+2x16	DTB 2x35
Rated cross-section [mm ²]	16	16 / 35	35
Rated current [A]	76	76 / 125	125
Rated voltage U _i [V]	690	690	690
Conductor cross section [mm ²]	Input	3 x 6 ÷ 16	1 x 10 ÷ 35
	Output	-	2 x 6 ÷ 16
Tightening torque [Nm]	Input	-	2 x 6 ÷ 16
	Output	3 x 6 ÷ 16	1 x 10 ÷ 35
Tools	Input	-	2 x 6 ÷ 16
	Output	2 (16 mm ²)	2 (16 mm ²)
Assembly method (on DIN rail)	Inbus	5 (35 mm ²)	5 (35 mm ²)
IP code	TH 35	Inbus	Inbus
Operating temperature [°C]	20	TH 35	TH 35
Number of clamping points per level	-25 ÷ +100	20	20
Number of levels	6	6	4
End cover plate required	1	1	1
Testing	NO	NO	NO
Dimensions [mm] (width / height / length)	IEC 60998-2-1	IEC 60998-2-1	IEC 60998-2-1
Weight [g]	39 / 47 / 57	39 / 47 / 57	39 / 47 / 57
Packing [pcs]	100	85	88
Order number	1	1	1
	U316D21	U21635D21	U235D21
	U316D12	U21635D12	U235D12
	U316D24	U21635D24	U235D24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS

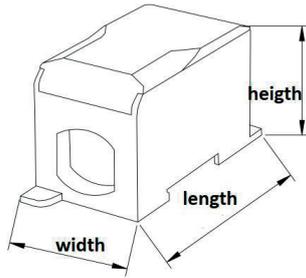


		DTB 2x50	DTB 120/120+2x16	DTB 120/9x16
Rated cross-section [mm ²]		50	120	120
Rated current [A]		160	250	250
Rated voltage U _i [V]		690	690	690
Conductor cross section [mm ²]	Input	2 x 10 ÷ 50	1 x 35 ÷ 120	1 x 35 ÷ 120
	Output	2 x 10 ÷ 50	1 x 35 ÷ 120	9 x 2,5 ÷ 16
Tightening torque [Nm]		-	2,5 (2,5 mm ²)	2,5 (2,5 mm ²)
		-	5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)
		7 (10 mm ²)	7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 mm ²)	18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		-	22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)
Tools		Inbus	Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35	TH 35
IP code		20	20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		4	4	10
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60998-2-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		39 / 47 57	35 / 68 / 97	35 / 68 / 97
Weight [g]		83	183	172
Packing [pcs]		1	1	1
Order number		U250D21	UB120K.21	UB12016.21
		U250D12	UB120K.12	UB12016.12
		U250D24	UB120K.24	UB12016.24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



DTB 120/4x35

**DTB 120/
2x50+3x16**

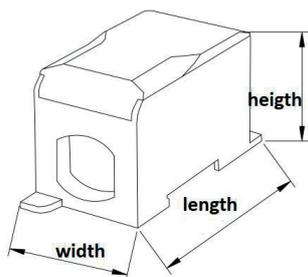
DTB 35/6x6

Rated cross-section [mm ²]		120	120	35
Rated current [A]		250	250	60
Rated voltage U _i [V]		690	690	500
Conductor cross section [mm ²]	Input	1 x 35 ÷ 120	1 x 35 ÷ 120	1 x 6 ÷ 35
	Output	4 x 6 ÷ 35	2 x 10 ÷ 50	6 x 2,5 ÷ 6
Tightening torque [Nm]		-	3 x 2,5 ÷ 16	-
		-	2,5 (2,5 mm ²)	1,0 (6 mm ²)
		5 (6 mm ²)	5 (4 ÷ 6 mm ²)	2,5 (35 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)	-
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)	-
Tools		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)	-
		22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)	-
		Inbus	Inbus	PH 2 with flat slot
Assembly method (on DIN rail)		TH 35	TH 35	TH 35
IP code		20	20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		5	6	7
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		35 / 68 / 97	35 / 68 / 97	17,5 / 68 / 97
Weight [g]		176	173	107
Packing [pcs]		1	1	1
Order number		UB12035.21	UB12050.21	UB356.21
		UB12035.12	UB12050.12	UB356.12
		UB12035.24	UB12050.24	UB356.24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



DTB 35/3x16

DTB 35/2x16+2x6

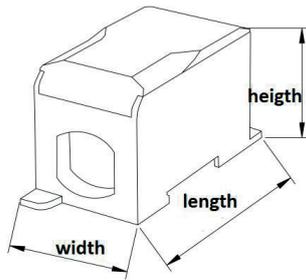
**DTB 70/ 7x6+2x25
+2x16**

Rated cross-section [mm ²]		35	35	70
Rated current [A]		60	60	160
Rated voltage U _i [V]		500	500	500
Conductor cross section [mm ²]	Input	1 x 6 ÷ 35	1 x 6 ÷ 35	1 x 25 ÷ 70
	Output	3 x 6 ÷ 16	2 x 6 ÷ 16	2 x 10 ÷ 25
		-	2 x 2,5 ÷ 6	2 x 6 ÷ 16
Tightening torque [Nm]		-	-	7 x 1,5 ÷ 6
		1,2 (16 mm ²)	1,0 (6 mm ²)	1,0 (6 mm ²)
		2,5 (35 mm ²)	1,2 (16 mm ²)	1,2 (16 mm ²)
		-	2,5 (35 mm ²)	12 (25 mm ²)
Tools		-	-	18 (35 ÷ 70 mm ²)
Assembly method (on DIN rail)		PH 2 with flat slot	PH 2 with flat slot	Inbus / PH 2
IP code		TH 35	TH 35	TH 35
Operating temperature [°C]		20	20	20
Number of clamping points per level		-25 ÷ +100	-25 ÷ +100	-25 ÷ +100
Number of levels		4	5	12
End cover plate required		1	1	1
Testing		NO	NO	NO
Dimensions [mm] (width / height / length)		IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
Weight [g]		17,5 / 68 / 97	17,5 / 68 / 97	35 / 68 / 97
Packing [pcs]		106	106	187
Order number		1	1	1
		UB3516.21	UB3510.21	UB7035.21
		UB3516.12	UB3510.12	UB7035.12
		UB3516.24	UB3510.24	UB7035.24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



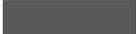
15 DISTRIBUTION BLOCKS



DTB 2x50/3x16

**DTB 2x95/
3x35+2x16+9x6**

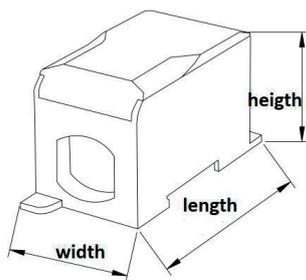
DTB 2x120/2x120

Rated cross-section [mm ²]	50	95	120	
Rated current [A]	160 / 76	400	400	
Rated voltage U _i [V]	690	690	690	
Rated impulse withstand voltage U _{imp} [V]	6 000	6 000	6 000	
Conductor cross section [mm ²]	Input	2 x 10 ÷ 50	2 x 35 ÷ 95	2 x 35 ÷ 120
	Output	3 x 2,5 ÷ 16	3 x 6 ÷ 35	2 x 35 ÷ 120
		-	2 x 6 ÷ 16	-
Tightening torque [Nm]		-	9 x 1,5 ÷ 6	-
		2,5 (2,5 mm ²)	1,0 (6 mm ²)	12 (35 mm ²)
		5 (4 ÷ 6 mm ²)	1,2 (16 mm ²)	18 (50 ÷ 70 mm ²)
		7 (10 ÷ 16 mm ²)	12 (35 mm ²)	22 (95 ÷ 120 mm ²)
		12 (25 ÷ 35 mm ²)	18 (50 ÷ 70 mm ²)	-
Tools	Inbus	Inbus / PH 1	Inbus	
Assembly method (on DIN rail)	TH 35	TH 35	TH 35	
IP code	20	20	20	
Operating temperature [°C]	-25 ÷ +100	-25 ÷ +100	-25 ÷ +100	
Number of clamping points per level	5	16	4	
Number of levels	1	1	1	
End cover plate required	NO	NO	NO	
Testing	IEC 60998-2-1	IEC 60947-7-1	IEC 60947-7-1	
Dimensions [mm] (width / height / length)	39 / 47 / 57	52,5 / 67 / 97	52,5 / 67 / 97	
Weight [g]	78	363	294	
Packing [pcs]	1	1	1	
Order number		U250DK21	UB295K21	UB2120.21
		U250DK12	UB295K12	UB2120.12
		U250DK24	UB295K24	UB2120.24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



**DTB 2x120/
2x95+1x50**

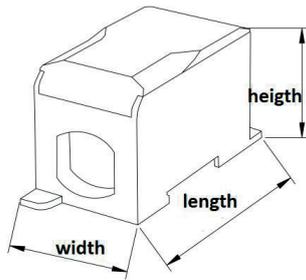
DTB 2x120/8x35

Rated cross-section [mm ²]		120	120
Rated current [A]		400	400
Rated voltage U _i [V]		690	690
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000
Conductor cross section [mm ²]	Input	2 x 35 ÷ 120	2 x 35 ÷ 120
	Output	2 x 35 ÷ 95 1 x 10 ÷ 50	8 x 6 ÷ 35 -
Tightening torque [Nm]		7 (10 mm ²)	5 (6 mm ²)
		12 (25 ÷ 35 mm ²)	7 (10 ÷ 16 mm ²)
		18 (50 ÷ 70 mm ²)	12 (25 ÷ 35 mm ²)
		22 (95 ÷ 120 mm ²)	18 (50 ÷ 70 mm ²)
Tools		Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35
IP code		20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		5	10
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		52,5 / 67 / 97	52,5 / 67 / 97
Weight [g]		246	245
Packing [pcs]		1	1
Order number		UB2120AK21	UB2120BK21
		UB2120AK12	UB2120BK12
		UB2120AK24	UB2120BK24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS

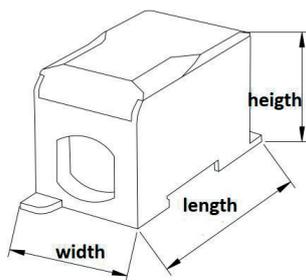


		DTB 2x120/15x16	DTB 120/15x16+4x35
Rated cross-section [mm ²]		120	120
Rated current [A]		400	400
Rated voltage U _i [V]		690	690
Rated impulse withstand voltage U _{imp} [V]		6 000	6 000
Conductor cross section [mm ²]	Input	2 x 35 ÷ 120	1 x 35 ÷ 120
	Output	15 x 2,5 ÷ 16	15 x 2,5 ÷ 16
		-	4 x 6 ÷ 35
		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)
Tightening torque [Nm]		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)
Tools		Inbus	Inbus
Assembly method (on DIN rail)		TH 35	TH 35
IP code		20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		17	20
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		52,5 / 67 / 97	52,5 / 67 / 97
Weight [g]		247	241
Packing [pcs]		1	1
Order number		UB2120CK21	UB120BK21
		UB2120CK12	UB120BK12
		UB2120CK24	UB120BK24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS

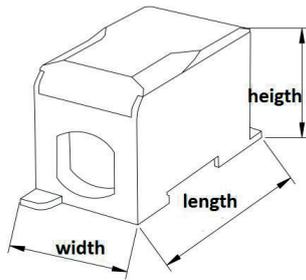


		DTB 120/8x16	DTB 120/50+6x16
Rated cross-section [mm ²]		120	120
Rated current [A]		250	250
Rated voltage U _i [V]		690	690
Conductor cross section [mm ²]	Input	1 x 35 ÷ 120	1 x 35 ÷ 120
	Output	8 x 2,5 ÷ 16	1 x 10 ÷ 50
Tightening torque [Nm]		-	6 x 2,5 ÷ 16
		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
Tools		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
		22 (95 ÷ 120 mm ²)	22 (95 ÷ 120 mm ²)
		Inbus	Inbus / spanner
Assembly method (on DIN rail)		TH 35 / on the plate	TH 35 / on the plate
IP code		20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		9	8
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		56 / 51 / 79	56 / 51 / 79
Weight [g]		288	280
Packing [pcs]		1	1
Order number		UB12016A21	UB12050A21
		UB12016A12	UB12050A12
		UB12016A24	UB12050A24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15 DISTRIBUTION BLOCKS



DTB 120/3x25+4x10

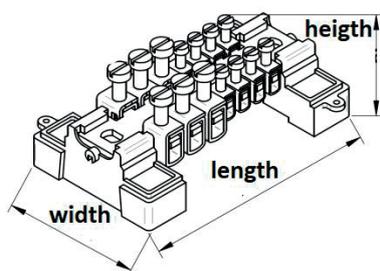
DTB 70/10x16

Rated cross-section [mm ²]		120	70
Rated current [A]		250	250
Rated voltage U _i [V]		690	690
Conductor cross section [mm ²]	Input	1 x 35 ÷ 120	1 x 16 ÷ 70
	Output	3 x 4 ÷ 25 4 x 1,5 ÷ 10	10 x 2,5 ÷ 16 -
Tightening torque [Nm]		1,5 (1,5 mm ²)	-
		2,5 (2,5 mm ²)	2,5 (2,5 mm ²)
		5 (4 ÷ 6 mm ²)	5 (4 ÷ 6 mm ²)
		7 (10 ÷ 16 mm ²)	7 (10 ÷ 16 mm ²)
		12 (25 ÷ 35 mm ²)	12 (25 ÷ 35 mm ²)
		18 (50 ÷ 70 mm ²)	18 (50 ÷ 70 mm ²)
Tools		Inbus / spanner	Inbus / spanner
Assembly method (on DIN rail)		TH 35 / on the plate	TH 35 / on the plate
IP code		20	20
Operating temperature [°C]		-25 ÷ +100	-25 ÷ +100
Number of clamping points per level		8	11
Number of levels		1	1
End cover plate required		NO	NO
Testing		IEC 60947-7-1	IEC 60947-7-1
Dimensions [mm] (width / height / length)		56 / 51 / 79	56 / 51 / 79
Weight [g]		295	288
Packing [pcs]		1	1
Order number		UB12025.21	UB7016.21
		UB12025.12	UB7016.12
		UB12025.24	UB7016.24

For a safe connection of single-wire aluminium conductors, the clamp part for the conductor should be filled with special contact paste that prevents the layer oxidation, prevents electrolytic corrosion and provides long-term protection.



15.4 Branching terminal blocks



		PS (SN, SPE) 2	PS (SN, SPE) 3
Type of clamp - their number in the terminal block	PS 6 mm ²	4	8
	PS 16 mm ²	6	6
	PS 95 mm ²	4	-
Rated current [A]		232 (max. current load)	76 (max. current load)
Rated voltage U _i [V]		750~; 830=	750~; 830=
Assembly method		TH 35	TH 35
Operating temperature [°C]		-25 ÷ +55	-25 ÷ +55
Number of clamping points per level		14	14
Number of levels		1	1
End cover plate required		NO	NO
Testing		ČSN EN 60947-7-1	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)		60 / 60,3 (70,8 with cover) / 125	60 / 45,5 / 103,6
Weight [g]		270	145
Packing [pcs]		1	1
Order number	PS – phase 	I 233 600	I 236 900
	SN – zero 	I 243 700	I 237 000
	SPE – PE, PEN  	I 243 800	I 236 800

Table of connectors for the individual clamp:

Type of clamp	PS 6 mm ²	PS 16 mm ²	PS 95 mm ²
Rated cross-section [mm ²]	6	16	70
1x Cu (D-solid conductor / stranded conductor)	2,5 ÷ 10 / -	4 ÷ 16 / -	10 ÷ 16 / 10 ÷ 95
2x Cu (D- solid conductor)	2,5	4 ÷ 6	10 ÷ 25
1x Cu (L-finely stranded conductor)	2,5 ÷ 6	4 ÷ 16	10 ÷ 70
2x Cu (L-finely stranded conductor)	2,5	4 ÷ 6	16
1x Al	-	-	10 ÷ 95
Tightening torque screws (Nm)	0,8	2	6
Tools	Flat screwdriver (0,8 x 4)	Flat screwdriver (1 x 5,5)	Inbus number 6



15 DISTRIBUTION BLOCKS

15.4.1 Accessories

	PS (SN, SPE) 2	PS (SN, SPE) 3
Adapter APS 2 ¹	I 243 907	I 243 907
Brown Cover	I 263 455	-
Light blue Cover	I 263 425	-
Green Cover	I 263 445	-

Note: The cover is not supplied with the terminal box, it must be ordered separately.



Adapter APS 2



Cover



Cover

¹ If you use the APS 2 adapter, it is possible to attached the branch terminal block to the DIN rails TH 35 x 15 or TH 35 x 7,5. For one terminal block you need two adapters.

16 TERMINAL BOARDS FOR THE LAMP POLES

Lamp pole equipment is offered in two basic series: SV and SI.

SV series

The SV pole equipment series includes terminal blocks, fuse terminals and accessories. Terminal boards are clamping on the DIN Rails TH 35 or TH 15 with various lengths (the length of the rail depends on the type of the pole terminal board). The SI pole terminal boards are designed for four- and five-conductor systems; terminal board protection is IP 20. All types of pole terminal boards can connect aluminium and copper conductors. All terminals in the pole terminal board system are labelled and clearly identified, including the colour of the insulation casing, terminal blocks colours match wire colours.

SI series

The SI pole equipment in Class II insulation are offered in two versions that differ in the maximum cross-section of the feed cable. The SI pole terminal boards are designed for four- and five-conductor system; terminal board protection is IP 54.



SV series

- Insulating material: PA 6 polyamide, V0 flammability acc. to UL 94, halogen-free
- Above-standard finish of connecting and current-carrying components
- Possibility to connect aluminium and copper conductors
- Conductive coupling of PE terminals with DIN rail
- Cover IP 20
- Phase terminals separated with central barriers
- Terminals in the set are labelled
- State laboratory certification and compliance with EU testing

SI series

- Box insulating material ASA+PC, V0 flammability class
- Encapsulated terminal board in Class II insulation
- Protection IP 54
- Maximum connecting cross-section 16 and 35 mm² (according to the type)
- Possibility to connect copper and aluminium conductors
- Transparent cover with an individual access to the safety components
- Variable pole connection of the terminal board
- Selection of safety components according to the user's requirements

Design

SV series

The insulating part of the terminal blocks installed in the pole equipment is made of PA 6 polyamide, the conducting part is made of brass with galvanic finishing. The TH rail is modified so that the terminal board can be applied in various types of street light poles. The protection of the pole equipment is IP 20. (Types consisting of RSA 35 A terminals with a connected conductor having cross-section from 10 mm² down, or without a conductor, must be equipped with optional equipment – a side cover for RSA 35 A, Order No. G 420 066, in order to achieve the IP 20 protection).

SI series

The insulating part of the equipment (plastic box) is made of highly resistant plastic material ASA+PC, V0 flammability class. The safety components cover is transparent and provides an individual access to the safety components. The plastic box of the terminal board consists of a bottom and a top part. The bottom part includes a compact terminal board and a DIN rail, where safety components are mounted. The insulating part of the terminal board is made of PA 6.6 polyamide. The top and bottom grommets is rubber and can be replaced if needed.

The SI pole terminal boards have fixtures that provide easy applicability in various types of street light poles. They are also equipped with an additional plastic hook for hanging the terminal board.

16 TERMINAL BOARDS FOR THE LAMP POLES

Marking

The pole terminal boards are labelled with a simple code: SV X.Y.Z p. The table below provides an explanation. The first column specifies the individual letters of the code. The second column contains the values that the code letters can acquire. The third column is explanatory. Generally, it is possible to define the parts of the SV X.Y.Z p code as follows:

- **SV** X.Y.Z p
This part of the code provides information about the safety component and the basic design of the terminal board
- sv **X**.Y.Z p
The value in this part specifies whether it is a continuous or branching terminal board, i.e. whether it is modified for the connection of two or three feed cables
- sv x **Y**.Z p
This value defines the feed cable conductor cross-section
- sv x.y **Z** p
This value of the code defines the type of voltage system of the feed cable (TNC / TNS; 3 or 1 phase)
- sv x.y.z **p**
p. is an optional parameter, informing whether or not the pole terminal board includes overvoltage protection

CODE	ID OF TERMINAL BOARDS	DESCRIPTION
SV	SV	Fuse holder - RSP 4, assembly composed of RSA terminals
	SV-A	Fuse holder - E 14, assembly composed of RSA terminals
	SV-B	Fuse holder - E27, assembly composed of the terminals RSA
	SV-M	Fuse holder - fuse base 1106 F - 1p (5x20 tube fuse) assembly composed of terminals EURO MINI
	SV-UTB	Fuse holder - RSP 4 assembly composed of UTB terminals
	SV-D	Fuse holder - fuse switch 10x38 assembly composed of terminals RSA
	SI	Terminal board with IP54 protection, without securing element
	SI - A	Terminal board with IP 54 protection, with fuse holder E14
	SI - C	Terminal board with IP 54 protection, with circuit breaker
	SI - V	Terminal board with IP 54 protection, with fuse holder RSP 4
X	6	Throughput terminal blocks
	9	Branching terminal
Y	4 / 6 / 10 / 16 / 35	Type of terminal block, or nominal cross-section of supply wires
Z	3	Type of power supply system: 3 = TN-S, single phase
	4	Type of power supply system: 4 = TN-C, three-phase
	5	Type of power supply system: 5 = TN-S, three-phase
p		Optional for overvoltage protection equipment

16.1 Terminal boards for lamp poles SV



		SV x.6.z	SV x.10.z	SV x.16.z	SV x.35.z	
Rated cross-section [mm ²]		6	10	16	35	
Rated current [A]		41	57	76	125	
Rated voltage U _i [V]		1 000	1 000	1 000	1 000	
Rated impulse withstand voltage U _{imp} [V]		4 000	4 000	4 000	4 000	
Clamped conductor range [mm ²] (solid conductor)		1 ÷ 6	1,5 ÷ 10	1,5 ÷ 16	2,5 ÷ 35	
Composition of the terminal block	Main terminal	RSA 6 A	RSA 10 A	RSA 16 A	RSA 35 A	
	Main terminal for PE conductors	RSA PE 6 A	RSA PE 10 A	RSA PE 16 A	RSA PE 35 A	
	Fuse terminal	RSP 4	RSP 4	RSP 4	RSP 4	
Maximum scattered power P _{vk} [W] by disposition / Rated current of fuse	independent	2W / 6,3 A				
	combined	1W / 6,3 A				
Size of fusible fuse insert		Ceramic F, M, T, size 5×20, rated current 6,3 A				
Tightening torque [Nm] terminal blocks / fuse clamp		0,8 / 0,5	1,2 / 0,5	2 / 0,5	2,5 / 0,5	
Tools terminal blocks / fuse clamp		PH1 / PH0	PH2 / PH0	PH2 / PH0	PH2 / PH0	
Pollution degree		2	2	2	2	
IP code		20	20	20	20	
Operating temperature [°C]		-40 ÷ +55	-40 ÷ +55	-40 ÷ +55	-40 ÷ +55	
Testing		ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3				
Packing [pcs]		1	1	1	1	
Order number (type of terminal block / order number)						
Throughput terminal blocks (2 tensioning cables)	system TNC	SV 6.6.4 H 111 410	SV 6.10.4 H 111 314	SV 6.16.4 H 116 110	SV 6.35.4 H 116 214	
	system TNC, 2 fuse terminals	SV 6.6.4 / 2 H 111 415	SV 6.10.4 / 2 H 111 315	SV 6.16.4 / 2 H 116 115	SV 6.35.4 / 2 H 116 215	
	system TNS - single phase	SV 6.6.3 H 111 434	-	-	-	
	system TNS	SV 6.6.5 H 111 420	SV 6.10.5 H 111 324	SV 6.16.5 H 116 120	SV 6.35.5 H 116 224	
	system TNS, 2 fuse terminals	SV 6.6.5 / 2 H 111 425	SV 6.10.5 / 2 H 111 325	SV 6.16.5 / 2 H 116 125	SV 6.35.5 / 2 H 116 225	
	Branching terminal (3 tensioning cables)	system TNC	SV 9.6.4 H 121 410	SV 9.10.4 H 121 314	SV 9.16.4 H 126 110	SV 9.35.4 H 126 214
		system TNC, 2 fuse terminals	SV 9.6.4 / 2 H 121 415	SV 9.10.4 / 2 H 121 315	SV 9.16.4 / 2 H 126 115	SV 9.35.4 / 2 H 126 215
		system TNS	SV 9.6.5 H 121 420	SV 9.10.5 H 121 324	SV 9.16.5 H 126 120	SV 9.35.5 H 126 224
system TNS, 2 fuse terminals		SV 9.6.5 / 2 H 121 425	SV 9.10.5 / 2 H 121 325	SV 9.16.5 / 2 H 126 125	SV 9.35.5 / 2 H 126 225	

16 TERMINAL BOARDS FOR THE LAMP POLES

Table with dimensions:

SV x.6.z

Dimensions	SV 6.6.3	SV 6.6.4	SV 6.6.4/2	SV 9.6.4	SV 9.6.4/2	SV 6.6.5	SV 6.6.5/2	SV 9.6.5	SV 9.6.5/2
A [mm]	55	55	55	55	55	55	55	55	55
B [mm]	48	48	48	48	48	48	48	48	48
C [mm]	75	93	102	116	125	102	110	132	141
C1 [mm]	50	50	50	50	50	50	50	50	50
L [mm]	235	235	235	250	250	235	235	250	250

SV x.10.z

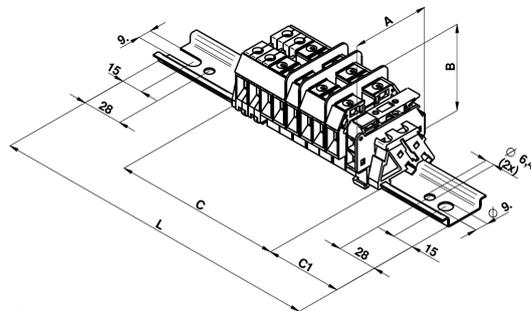
Dimensions	SV 6.10.4	SV 6.10.4/2	SV 9.10.4	SV 9.10.4/2	SV 6.10.5	SV 6.10.5/2	SV 9.10.5	SV 9.10.5/2
A [mm]	55	55	55	55	55	55	55	55
B [mm]	54	54	54	54	54	54	54	54
C [mm]	110	119	140	149	120	129	160	169
C1 [mm]	50	50	50	50	50	50	40	40
L [mm]	235	235	250	250	235	235	250	250

SV x.16.z

Dimensions	SV 6.16.4	SV 6.16.4/2	SV 9.16.4	SV 9.16.4/2	SV 6.16.5	SV 6.16.5/2	SV 9.16.5	SV 9.16.5/2
A [mm]	55	55	55	55	55	55	55	55
B [mm]	61	61	61	61	61	61	61	61
C [mm]	125	134	161	170	137	146	185	194
C1 [mm]	50	50	50	40	50	50	50	50
L [mm]	235	235	250	250	235	235	300	300

SV x.35.z

Dimensions	SV 6.35.4	SV 6.35.4/2	SV 9.35.4	SV 9.35.4/2	SV 6.35.5	SV 6.35.5/2	SV 9.35.5	SV 9.35.5/2
A [mm]	65	65	65	65	65	65	65	65
B [mm]	70	70	70	70	70	70	70	70
C [mm]	157	166	207	216	174	183	240	249
C1 [mm]	50	50	50	50	50	50	50	50
L [mm]	300	300	380	380	300	300	380	380

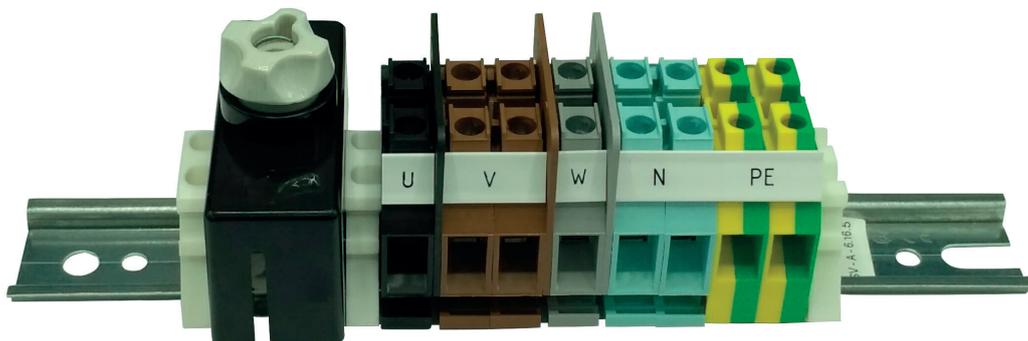


The terminal boards are clamping on the DIN Rail TH 35 from terminal blocks RSA 6, RSA 10 A, RSA 16 A or RSA 35 A, including the accessories, and they can be used in the TN-C and TN-S system. The basic version includes a cut-out base (fuse terminal block RSP 4). It is possible to order terminal boards with several cut-out bases.

Since 2016, SV types are standardly supplied with a ceramic fuse, T6.3 A /1500.



16.2 Terminal boards for lamp poles SV-A



		SV-A x.10.z	SV-A x.16.z	SV-A x.35.z
Rated cross-section [mm ²]		10	16	35
Rated current [A]		57	76	125
Rated voltage U _i [V]		1 000	1 000	1 000
Rated impulse withstand voltage U _{imp} [V]		4 000	4 000	4 000
Clamped conductor range [mm ²] (solid conductor)		1,5 ÷ 10	1,5 ÷ 16	2,5 ÷ 35
Composition of the terminal block	Main terminal	RSA 10 A	RSA 16 A	RSA 35 A
	Main terminal for PE conductors	RSA PE 10 A	RSA PE 16 A	RSA PE 35 A
	Fuse terminal	E 14	E 14	E 14
Maximum scattered power P _{vk} [W]		According to the selected fuse		
Size of fusible fuse insert		D02		
Tightening torque [Nm] terminal blocks / fuse clamp		1,2 / 0,5	2 / 0,5	2,5 / 0,5
Tools terminal blocks / fuse clamp		PH2 / PH0	PH2 / PH0	PH2 / PH0
Pollution degree		2	2	2
IP code		20	20	20
Operating temperature [°C]		-40 ÷ +55	-40 ÷ +55	-40 ÷ +55
Testing		ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3		
Packing [pcs]		1	1	1
Order number (type of terminal block / order number)				
Throughput terminal (2 tensioning cables)	system TNC	SV-A 6.10.4 H 411 317	SV-A 6.16.4 H 416 110	SV-A 6.35.4 H 416 217
	system TNC, 2 fuse terminals	SV-A 6.10.4 /2 H 411 318	SV-A 6.16.4 /2 H 416 118	SV-A 6.35.4 /2 H 416 218
	system TNS	SV-A 6.10.5 H 411 327	SV-A 6.16.5 H 416 120	SV-A 6.35.5 H 416 227
	system TNS, 2 fuse terminals	SV-A 6.10.5 /2 H 411 328	SV-A 6.16.5 /2 H 416 128	SV-A 6.35.5 /2 H 416 228
Branching terminal blocks (3 tensioning cables)	system TNC	SV-A 9.10.4 H 421 317	SV-A 9.16.4 H 426 110	SV-A 9.35.4 H 426 217
	system TNC, 2 fuse terminals	SV-A 9.10.4 /2 H 421 318	SV-A 9.16.4 /2 H 426 118	SV-A 9.35.4 /2 H 426 218
	system TNS	SV-A 9.10.5 H 421 327	SV-A 9.16.5 H 426 120	SV-A 9.35.5 H 426 227
	system TNS, 2 fuse terminals	SV-A 9.10.5 /2 H 421 328	SV-A 9.16.5 /2 H 426 128	SV-A 9.35.5 /2 H 426 228

16 TERMINAL BOARDS FOR THE LAMP POLES

Table with dimensions:

SV-A x.10.z

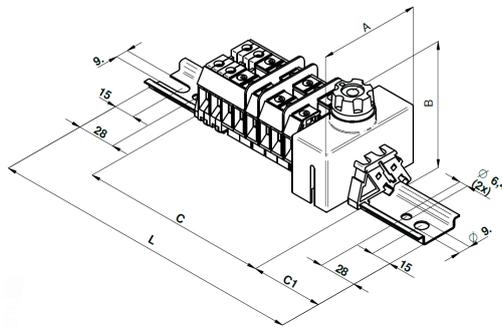
Dimensions	SV-A 6.10.4	SV-A 6.10.4/2	SV-A 9.10.4	SV-A 9.10.4/2	SV-A 6.10.5	SV-A 6.10.5/2	SV-A 9.10.5	SV-A 9.10.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	73	73	73	73	73	73	73	73
C [mm]	131	170	161	200	141	180	181	220
C1 [mm]	50	40	40	50	50	40	40	40
L [mm]	235	250	250	300	235	300	300	300

SV-A x.16.z

Dimensions	SV-A 6.16.4	SV-A 6.16.4/2	SV-A 9.16.4	SV-A 9.16.4/2	SV-A 6.16.5	SV-A 6.16.5/2	SV-A 9.16.5	SV-A 9.16.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	73	73	73	73	73	73	73	73
C [mm]	145	184	181	220	157	196	205	244
C1 [mm]	40	40	40	40	40	40	40	40
L [mm]	235	300	300	300	250	300	300	380

SV-A x.16.z

Dimensions	SV-A 6.35.4	SV-A 6.35.4/2	SV-A 9.35.4	SV-A 9.35.4/2	SV-A 6.35.5	SV-A 6.35.5/2	SV-A 9.35.5	SV-A 9.35.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	73	73	73	73	73	73	73	73
C [mm]	178	217	228	267	195	234	261	300
C1 [mm]	50	50	50	50	50	50	50	50
L [mm]	300	380	380	380	300	380	380	380



Fuse holders in pole terminal board systems do not include own fuse element (fuse D02) due to the varying requirements of customers for their own types of fuses. The E14 and E27 cut-out bases do not include a pressure insert (distance ring).



16.3 Terminal boards for lamp poles SV-B



		SV-B x.10.z	SV-B x.16.z	SV-B x.35.z
Rated cross-section [mm ²]		10	16	35
Rated current [A]		57	76	125
Rated voltage U _i [V]		1 000	1 000	1 000
Rated impulse withstand voltage U _{imp} [V]		4 000	4 000	4 000
Clamped conductor range [mm ²] (solid conductor)		1,5 ÷ 10	1,5 ÷ 16	2,5 ÷ 35
Composition of terminal block	Main terminal	RSA 10 A	RSA 16 A	RSA 35 A
	Main terminal for PE conductors	RSA PE 10 A	RSA PE 16 A	RSA PE 35 A
	Fuse terminal	E 27	E 27	E 27
Maximum scattered power P _{vk} [W]		According to the selected fuse		
Size of fusible fuse insert		D II		
Tightening torque [Nm] terminal blocks / fuse clamp		1,2 / 0,5	2 / 0,5	2,5 / 0,5
Tools terminal blocks / fuse clamp		PH2 / PH0	PH2 / PH0	PH2 / PH0
Pollution degree		2	2	2
IP code		20	20	20
Operating temperature [°C]		-40 ÷ +55	-40 ÷ +55	-40 ÷ +55
Testing		ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3		
Packing [pcs]		1	1	1
Order number (type of terminal block / order number)				
Throughput terminal (2 tensioning cables)	system TNC	SV-B 6.10.4 H 441 110	SV-B 6.16.4 H 441 210	SV-B 6.35.4 H 416 210
	system TNC, 2 fuse terminals	SV-B 6.10.4 /2 H 441 111	SV-B 6.16.4 /2 H 441 211	SV-B 6.35.4 /2 H 416 213
	system TNS	SV-B 6.10.5 H 441 120	SV-B 6.16.5 H 441 220	SV-B 6.35.5 H 416 220
	system TNS, 2 fuse terminals	SV-B 6.10.5 /2 H 441 121	SV-B 6.16.5 /2 H 441 221	SV-B 6.35.5 /2 H 416 223
Branching terminal blocks (3 tensioning cables)	system TNC	SV-B 9.10.4 H 451 110	SV-B 9.16.4 H 451 210	SV-B 9.35.4 H 426 210
	system TNC, 2 fuse terminals	SV-B 9.10.4 /2 H 451 111	SV-B 9.16.4 /2 H 451 211	SV-B 9.35.4 /2 H 426 213
	system TNS	SV-B 9.10.5 H 451 120	SV-B 9.16.5 H 451 220	SV-B 9.35.5 H 426 220
	system TNS, 2 fuse terminals	SV-B 9.10.5 /2 H 451 121	SV-B 9.16.5 /2 H 451 221	SV-B 9.35.5 /2 H 426 223

16 TERMINAL BOARDS FOR THE LAMP POLES

Table with dimensions:

SV-B x.10.z

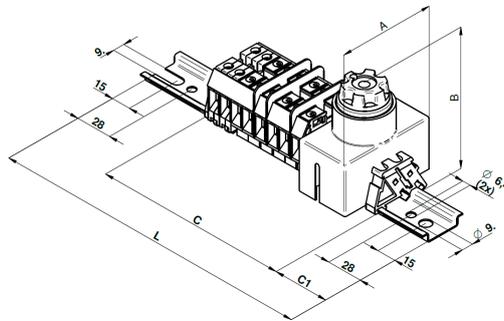
Dimensions	SV-B 6.10.4	SV-B 6.10.4/2	SV-B 9.10.4	SV-B 9.10.4/2	SV-B 6.10.5	SV-B 6.10.5/2	SV-B 9.10.5	SV-B 9.10.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	83	83	83	83	83	83	83	83
C [mm]	142	192	172	222	152	202	192	242
C1 [mm]	50	50	40	40	40	50	50	50
L [mm]	235	300	300	300	250	300	300	380

SV-B x.16.z

Dimensions	SV-B 6.16.4	SV-B 6.16.4/2	SV-B 9.16.4	SV-B 9.16.4/2	SV-B 6.16.5	SV-B 6.16.5/2	SV-B 9.16.5	SV-B 9.16.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	83	83	83	83	83	83	83	83
C [mm]	156	206	192	242	168	218	216	266
C1 [mm]	40	40	40	40	40	40	40	40
L [mm]	235	300	300	380	250	300	300	380

SV-B x.35.z

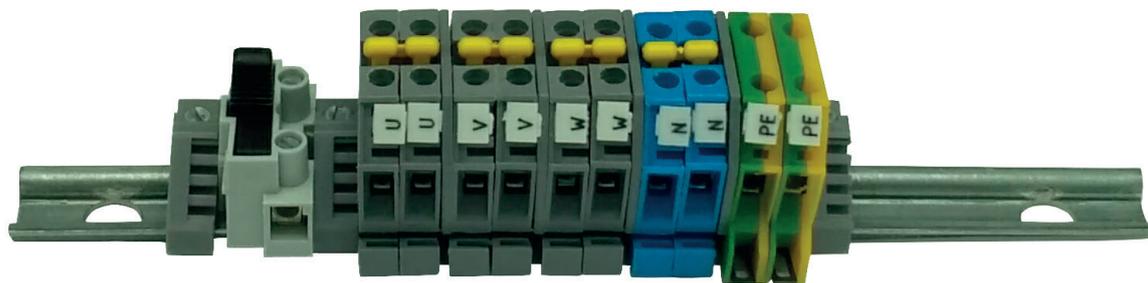
Dimensions	SV-B 6.35.4	SV-B 6.35.4/2	SV-B 9.35.4	SV-B 9.35.4/2	SV-B 6.35.5	SV-B 6.35.5/2	SV-B 9.35.5	SV-B 9.35.5/2
A [mm]	75	75	75	75	75	75	75	75
B [mm]	83	83	83	83	83	83	83	83
C [mm]	189	239	239	289	206	256	272	322
C1 [mm]	50	50	50	50	50	50	50	40
L [mm]	380	380	380	380	380	380	380	400



Fuse holders in pole terminal board systems do not include own fuse element (fuse DII) due to the varying requirements of customers for their own types of fuses. The E14 and E27 cut-out bases do not include a pressure insert (distance ring).



16.4 Terminal boards for lamp poles SV-M



SV-M x.4.z

Rated cross-section [mm ²]	4	
Rated current [A]	32	
Rated voltage U _i [V]	400	
Rated impulse withstand voltage U _{imp} [V]	4 000	
Clamped conductor range [mm ²] (solid conductor)	1,5 ÷ 6	
Composition of the terminal block	Main terminal	EURO MINI 4
	Main terminal for PE conductors	EURO MINI PE 4
	Fuse terminal	1106-F / 1P
Maximum scattered power P _{vk} [W] by disposition / Rated current of fuse	independent	2W / 6,3 A
	combined	1W / 6,3 A
Size of fusible fuse insert	Ceramic F, M, T, size 5×20, rated current 6,3 A	
Tightening torque [Nm] terminal blocks / fuse clamp	0,6 / 0,5	
Tools terminal blocks / fuse clamp	Flat screwdriver	
Pollution degree	2	
IP code	20	
Operating temperature [°C]	-40 ÷ +55	
Testing	ČSN EN 60947-7-1, ČSN EN 60947-7-2, EN 60127	
Packing [pcs]	1	
Order number (type of terminal block / order number)		
Throughput terminal (2 tensioning cables)	system TNS - single phase	SV-M 6.4.3 H 530 514
	system TNS - three-phase	SV-M 6.4.5 H 560 514
Branching terminal blocks (3 tensioning cables)	system TNS - three-phase	SV-M 9.4.5 H 590 514

Dimensions	SV-M 6.4.3	SV-M 6.4.5	SV-M 9.4.5
A [mm]	33	33	33
B [mm]	32	32	32
C [mm]	71	83	95
C1 [mm]	50	50	50
L [mm]	175	175	175



16 TERMINAL BOARDS FOR THE LAMP POLES

16.5 Terminal boards for lamp poles SV-UTB



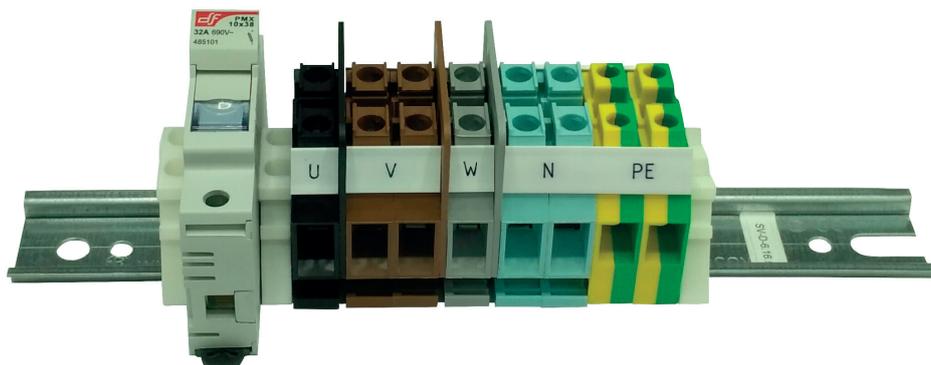
SV-UTB 6.16.z

Rated cross-section [mm ²]		16
Rated current [A]		82
Rated voltage U _i [V]		690
Rated impulse withstand voltage U _{imp} [V]		4 000
Clamped conductor range [mm ²] (solid conductor)		2,5 ÷ 16
Composition of the terminal block	Main terminal	UTB 2 x 16
	Main terminal for PE conductors	RSA PE 10 A
	Fuse terminal	RSP 4
Maximum scattered power P _{vk} [W] by disposition / Rated current of fuse	independent	2W / 6,3 A
	combined	1W / 6,3 A
Size of fusible fuse insert		Ceramic F, M, T, size 5×20, rated current 6,3 A
Tightening torque [Nm] terminal blocks / fuse clamp		2,5 / 0,5
Tools terminal blocks / fuse clamp		Inbus / PHO
Pollution degree		2
IP code		20
Operating temperature [°C]		-40 ÷ +55
Testing		ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3
Packing [pcs]		1
Order number (type of terminal block / order number)		
Throughput terminal (2 tensioning cables)	system TNC	SV-UTB 6.16.4 H 871 715
	system TNS	SV-UTB 6.16.5 H 881 815

Dimensions	SV-UTB 6.16.4	SV-UTB 6.16.5
A [mm]	42	42
B [mm]	42,5	42,5
C [mm]	116	128
C1 [mm]	40	40
L [mm]	235	235



16.6 Terminal boards for lamp poles SV-D



SV-D x.16.z

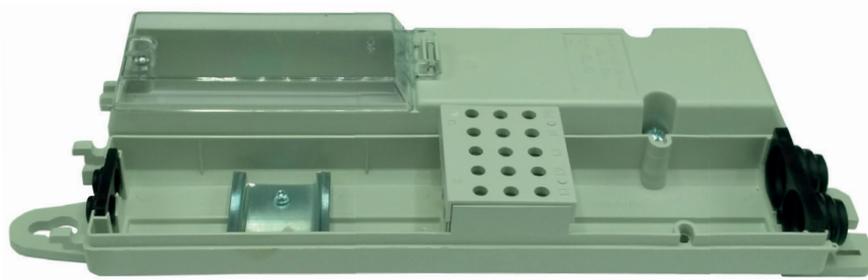
Rated cross-section [mm ²]	16	
Rated current [A]	76	
Rated voltage U _i [V]	1 000	
Rated impulse withstand voltage U _{imp} [V]	4 000	
Clamped conductor range [mm ²] (solid conductor)	1,5 ÷ 16	
Composition of the terminal block	Main terminal	RSA 16 A
	Main terminal for PE conductors	RSA PE 16 A
	Fuse disconnecter	PMX 10 x 38
Maximum scattered power P _{vk} [W]	3	
Size of fusible fuse insert	10 x 38	
Tightening torque [Nm] terminal blocks / fuse clamp	2 / 0,5	
Tools terminal blocks / fuse clamp	PH2 / PH0	
Pollution degree	2	
IP code	20	
Operating temperature [°C]	-40 ÷ +55	
Testing	ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3	
Packing [pcs]	1	
Order number (type of terminal block / order number)		
Throughput terminal (2 tensioning cables)	system TNC	SV-D 6.16.4 H 413 110
	system TNS	SV-D 6.16.5 H 413 120
Branching terminal blocks (3 tensioning cables)	system TNC	SV-D 9.16.4 H 423 110
	system TNS	SV-D 9.16.5 H 423 120

Dimensions	SV-D 6.16.4	SV-D 6.16.5	SV-D 9.16.4	SV-D 9.16.5
A [mm]	89	89	89	89
B [mm]	66	66	66	66
C [mm]	133	145	170	194
C1 [mm]	40	40	40	40
L [mm]	235	235	250	300



16 TERMINAL BOARDS FOR THE LAMP POLES

16.7 Terminal boards for lamp poles SI



	SI 10.16.5	SI 8.35.4
Rated cross-section [mm ²]	16	35
Rated current [A]	25	25
Rated voltage U _i [V]	500	500
Clamped conductor range [mm ²] (input)	Cu/Al 4(5) x 4 ÷ 16	Cu/Al 4 x 6 ÷ 35
Clamped conductor range [mm ²] (output to the lamp)	4(5) x 1,5 ÷ 2,5	4 x 1,5 ÷ 4
Maximum scattered power P _{vk} [W] by disposition / rated current of fuse	According to the fuse element which was used	
Size of fusible fuse insert		
Tightening torque [Nm] (input / output to the lamp)	3,5 ÷ 4 / 0,5 ÷ 0,8	3,5 ÷ 4 / 0,5 ÷ 0,8
Tools (input / output to the lamp)	Flat	PH 2
IP code	54	54
Protection class	II	II
Flammability class according to UL94	V0	V0
Operating temperature [°C]	-40 ÷ +55	-40 ÷ +55
The minimum size of the entry door [mm]	65 x 300	80 x 350
Testing	EN 60493-1, DIN VDE 0660-505, DIN 43628, DIN 43871	
Dimensions [mm] (width / height / length)	55 x 63 x 245	75 x 85 x 340
Packing [pcs]	1	1
Order number (type of terminal block / order number)		
	-	SI 10.16.5 H 847 210
		SI 8.35.4 H 846 210
	1 x E14	-
		SI-A 8.35.4 H 846 211
	2 x E14	-
		SI-A 8.35.4/2 H 846 212
	Circuit breaker 6A	-
		SI-C 8.35.4 H 846 213
	Circuit breaker 6A	-
		SI-C 8.35.4/2 H 846 214
	RSP 4	SI-V 10.16.5 H 847 211
		-
	2 x RSP 4	SI-V 10.16.5/2 H 847 212
		-
	Fuse switch	-
		On request
	2 x Fuse switch	-
		On request

Terminal blocks are tested according to EN 60529: 2000 / A1: 2008, they have the CE marking and are supplied under the brand EXTEH-RRS 12.



16.8 Equipment for terminal boards for lamp poles with overvoltage protection

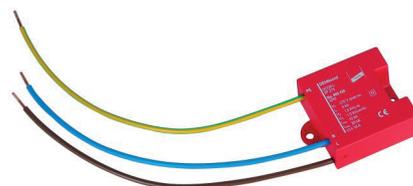
Information about the connectivity and applicability of overvoltage protection equipment

Pole equipment with overvoltage protection is offered in two basic versions: the system with RSA and UTB terminal blocks with IP 20 protection (to achieve IP 20 in RSA 35 A systems, it is required that terminals without a connected nominal conductor are equipped with a side cover, order number: G422266) and SI series equipment with IP 54 protection.

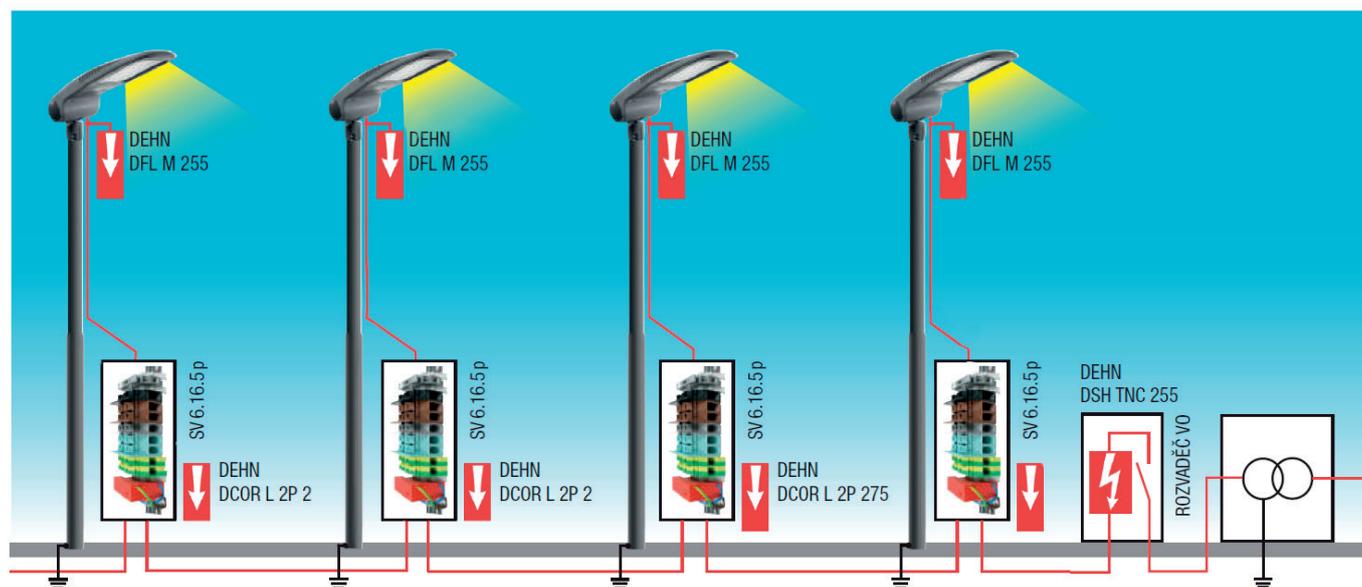
The equipment includes overvoltage protection Class II that provides elimination of the relevant overvoltage wave. To ensure correct function of the overvoltage protection, we recommend installing overvoltage protection Class III directly into the lamp and Class I+II into the closest street light switchboard.

Main reasons for installing overvoltage protection in LED street lights

- LED lamps include electric circuits that are sensitive to overvoltage in the network.
- The price of LED lamps exceeds the price of overvoltage protection several times.
- Semi-conductor components are destroyed even in case of indirect lightning strike, which is usually within 2 km from the strike.
- The equipment is not completely destroyed in case of overvoltage. The semi-conductor circuits are only partially damaged, the service life is reduced, but the failure usually occurs within several days or months.
- Overvoltage in the network is often created during storms, but this is not the only cause.
- Installation of overvoltage protection in the circuits of LED street lights reduces the susceptibility to failures and thus returns of the lamps.

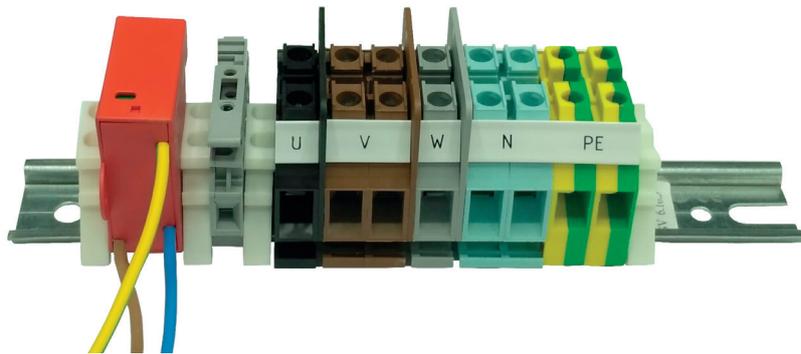


The SV and SI pole equipment includes quality DEHN overvoltage protection. When used, the risk of damage to the equipment due to the effects of overvoltage in the network is significantly reduced. A typical example of application would be installation of overvoltage protection Class II, such as DCOR L 2P 275, directly into the pole equipment. That provides protection from indirect effects of the lightning discharge (lightning current). Indirect effects of lightning current are the most frequent cause of damage or destruction of the equipment. If the manufacturer does not standardly provide overvoltage protection Class III or II in the body of the lamp, we recommend additional installation using, e.g. DEHN DFL M 255. For complete protection of the system V0, surge protection Class I+II must be installed in the street light distributor, e.g. type DEHN DSH TN 255 (DSH TNC 255). The proper application of overvoltage protection is shown in the picture.



16 TERMINAL BOARDS FOR THE LAMP POLES

16.8 Equipment for terminal boards for lamp poles with overvoltage protection



	SV x.16.z p	SV x.35.z p	SV-UTB 6.16.z p
Rated cross-section [mm ²]	16	35	16
Rated current [A]	76	125	82
Rated voltage U _i [V]	1 000	1 000	690
Rated impulse withstand voltage U _{imp} [V]	4 000	4 000	4 000
Clamped conductor range [mm ²] (solid conductor)	1,5 ÷ 16	2,5 ÷ 35	2,5 ÷ 16
Composition of the terminal block	Main terminal	RSA 16 A	RSA 35 A
	Main terminal for PE conductors	RSA PE 16 A	RSA PE 35 A
	Fuse terminal	RSP 4 / E14 / E27 (according to type)	
	Overvoltage protection	DCOR L 2P 275	DCOR L 2P 275
Tightening torque [Nm] terminal blocks / fuse clamp	2 / 0,5	2,5 / 0,5	2,5 / 0,5
Tools terminal blocks / fuse clamp	PH2 / PH0	PH2 / PH0	Inbus / PH0
Pollution degree	2	2	2
IP code	20	20	20
Operating temperature [°C]	-40 ÷ +55	-40 ÷ +55	-40 ÷ +55
Testing	ČSN EN 60947-7-1, ČSN EN 60947-7-2, ČSN EN 60947-7-3		
Packing [pcs]	1	1	1
Order number (type of terminal block / order number)			
Throughput terminal (2 tensioning cables)	system TNC, security element RSP 4	SV 6.16.4 p H 115 110	SV 6.35.4 p H 115 214
	system TNC, security element E14	SV-A 6.16.4 p H 415 110	SV-A 6.35.4 p H 415 217
	system TNC, security element E27	SV-B 6.16.4 p H 445 210	SV-B 6.35.4 p H 415 210
	system TNS, security element RSP 4	SV 6.16.5 p H 115 120	-
	system TNS, security element E14	SV-A 6.16.5 p H 415 120	-
	system TNS, security element E27	SV-B 6.16.5 p H 445 220	-
Branching terminal blocks (3 tensioning cables)	system TNC, security element RSP 4	SV 9.16.4 p H 125 110	SV 9.35.4 p H 125 214
	system TNC, security element E14	SV-A 9.16.4 p H 425 110	SV-A 9.35.4 p H 425 217
	system TNC, security element E27	SV-B 9.16.4 p H 455 210	SV-B 9.35.4 p H 425 210
	system TNS, security element RSP 4	SV 9.16.5 p H 125 120	-
	system TNS, security element E14	SV-A 9.16.5 p H 425 120	-
	system TNS, security element E27	SV-B 9.16.5 p H 455 220	-

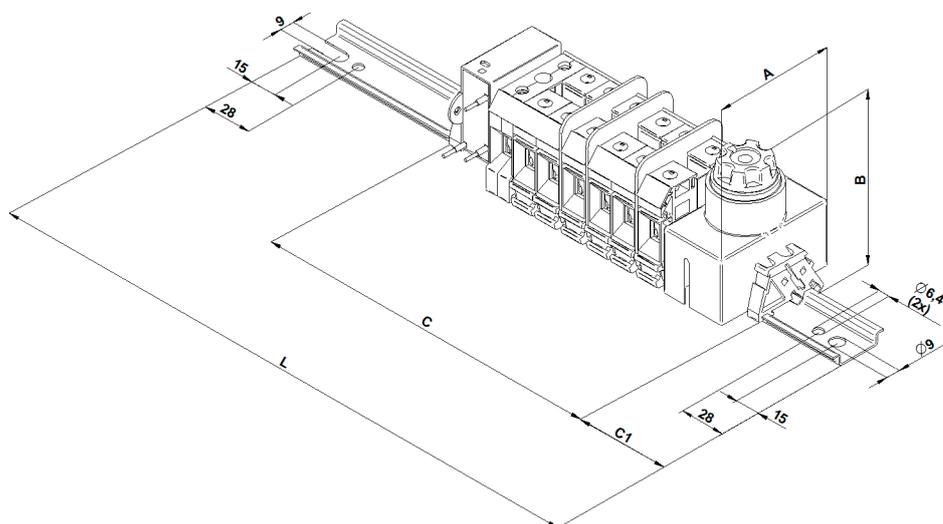
16 TERMINAL BOARDS FOR THE LAMP POLES

Table with dimensions:

Dimensions	SV 6.16.4.p	SV-A 6.16.4.p	SV-B 6.16.4.p	SV 6.16.5.p	SV-A 6.16.5.p	SV-B 6.16.5.p
A [mm]	60	75	78	60	75	75
B [mm]	64	73	83	64	73	83
C [mm]	167	188	199	167	188	199
C1 [mm]	40	40	40	40	40	40
L [mm]	250	280	280	250	280	380

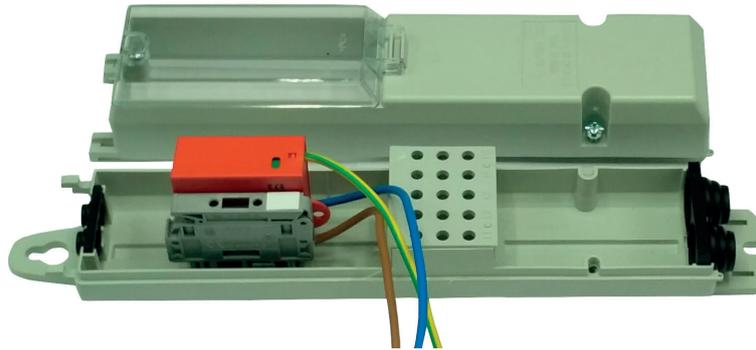
Dimensions	SV 9.16.4.p	SV-A 9.16.4.p	SV-B 9.16.4.p	SV 9.16.5.p	SV-A 9.16.5.p	SV-B 9.16.5.p
A [mm]	60	75	75	60	75	75
B [mm]	61	73	83	64	73	83
C [mm]	191	212	223	227	248	259
C1 [mm]	50	50	50	40	40	40
L [mm]	300	300	350	330	350	380

Dimensions	SV 6.35.4.p	SV-A 6.35.4.p	SV-B 6.35.4.p	SV 9.35.4.p	SV-A 9.35.4.p	SV-B 9.35.4.p	SV-UTB 6.16.4.p	SV-UTB 6.16.5.p
A [mm]	65	75	75	65	75	75	60	60
B [mm]	70	73	83	70	73	83	50	50
C [mm]	204	224	235	236	257	268	146	158
C1 [mm]	50	50	50	50	50	50	40	40
L [mm]	300	330	330	330	380	380	235	235



16 TERMINAL BOARDS FOR THE LAMP POLES

16.8 Equipment for terminal boards for lamp poles with overvoltage protection



	SI 10.16.5 p	SI 8.35.4 p
Rated cross-section [mm ²]	16	35
Rated current [A]	25	25
Rated voltage U _i [V]	500	500
Clamped conductor range [mm ²] (input)	Cu /Al 4(5) x 4 ÷ 16	Cu /Al 4 x 6 ÷ 35
Clamped conductor range [mm ²] (output to the lamp)	4(5) x 1,5 ÷ 2,5	4 x 1,5 ÷ 4
Maximum scattered power P _{vk} [W] by disposition / rated current of fuse	According to the fuse element which was used	
Size of fusible fuse insert		
Tightening torque [Nm] (input / output to the lamp)	3,5 ÷ 4 / 0,5 ÷ 0,8	3,5 ÷ 4 / 0,5 ÷ 0,8
Tools (input / output to the lamp)	Flat	PH 2
IP code	54	54
Protection class	II	II
Flammability class according to UL 94	V0	V0
The minimum size of the mast door VO [mm]	65 x 300	80 x 350
Testing	EN 60493-1, DIN VDE 0660-505, DIN 43628, DIN 43871	
Dimensions [mm] (width / height / length)	55 x 63 x 245	75 x 85 x 340
Packing [pcs]	1	1
Order number (type of terminal block / order number)		
	SI 10.16.5 p H 845 214	SI 8.35.4 p H 845 210
Fuse element		
1 x E14	-	SI-A 8.35.4 p H 845 211
Circuit breaker 6A	-	SI-C 8.35.4 p H 845 213
RSP 4	SI-V 10.16.5 p H 845 215	-
Surge protection	DCOR L 2P 275	DG TT 2P 5 275

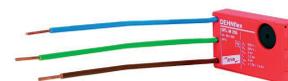


16 TERMINAL BOARDS FOR THE LAMP POLES

16.8.1 Equipment for terminal boards for lamp poles with overvoltage protection - accessories



	DSH TN 255	DSH TNC 255	DG S 275	DG M TT 275
Protection class	TYPE1 + TYPE2 (class I+II)	TYPE1 + TYPE2 (class I+II)	TYPE2 (class II)	TYPE2 (class II)
Power system	Single Phase (Network TN)	Three - Phase (Network TNC)	Single Phase (Network TT / TN)	Three - Phase (Network TT / TN)
Rated voltage [V]	230 V (50 / 60 Hz)	230 / 400 V (50 / 60 Hz)	230 V (50 / 60 Hz)	230 / 400 V (50 / 60 Hz)
Voltage level protection	L-PE] ≤ 1,5kV [N-PE] ≤ 1,5kV	≤ 1,5kV	≤ 1,5kV	≤ 1,5kV
Maximum connection conductor [solid / finely stranded]	35 / 25 mm ²	35 / 25 mm ²	10 / 6 mm ²	10 / 6 mm ²
Order number	On request	On request	On request	On request



	DCOR L 2P 275	DCOR L 1P 275	DFL M 255
Protection class	TYPE2 (class II)	TYPE2 (class II)	TYPE3 (class III)
Power system	Single Phase (Network TN)	Single Phase (Network TN)	Single Phase (Network TN)
Rated voltage [V]	230 V (50 / 60 Hz)	230 V (50 / 60 Hz)	230 V (50 / 60 Hz)
Voltage protection	L-PE] ≤ 1,5kV [N-PE] ≤ 1,5kV	[L-N] ≤ 1,5kV	[L-N] ≤ 1,25kV [L/N-PE] ≤ 1,5kV
Maximum connection conductor [solid / finely stranded]	1,5 mm ² , length 200 mm	1,5 mm ² , length 200 mm	1 mm ² , length 120 mm
Order number	On request	On request	On request

The overvoltage protection we use is by DEHN (we believe in quality), Class (type) II. The basic sets include DCOR L 2P 275 – parallel connection, but we can also offer serial types at the same price – the lamp is not lit when the overvoltage protection is added (signalling that there is overvoltage protection), as well as types that are equipped with metallic signalisation into the feed distributor (voltage is sent to the signalling conductor when overvoltage protection is added).

17 EQUIPOTENTIAL TERMINALS

EQUIPOTENTIAL TERMINALS EPS 1, EPS 2, EPS 3

The terminals are designed to be used in domestic and industrial distributions electrical panels as terminal boards for main bonding. EPS 1 and EPS 2 are supplied either with cover (with sealing option) or without cover. EPS 3 is supplied without cover and in the version EPS 3+KO 100E (in addition to EPS 3, the delivery also includes the installation box, KO 100E, with cover and connecting material for the installation of the terminal board in the box). The terminal board can be attached using M 5 screws (not included in the delivery) on the wall, on the distribution panel etc. The fastening screws are not conductively insulated from the terminal board bridge. The terminal board without cover can also be installed in the installation box (we recommend KO 125E and KT 250L for EPS 1 and EPS 2, and KO 100E for EPS 3).

The equipotential terminals comply with the requirements of standards CSN EN 60998-1:05 ed. 2, CSN EN 60998-2-1:05 ed. 2, CSN EN 60947-1:08 ed. 4 and CSN EN 60974-7-1:03 ed. 2.



Design

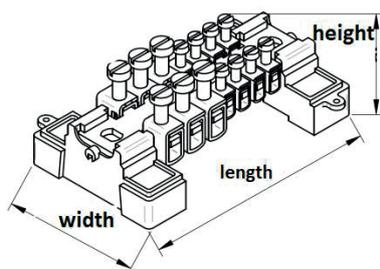
The connecting and branching part of the terminal board consists of a connecting brass bridge with factory-finished galvanised steel fastening clamps. The EPS 1 and EPS 2 types have the same dimensions but they differ in the number of clamps of various sizes (EPS 1 has more clamps for attaching conductors with larger cross-sections, EPS 2 has less clamps for conductors with smaller cross-sections). Both types have a special clamp for attaching a strip conductor. The EPS 3 type has smaller dimensions and the fastening holes are restricted when compared with the other two types. The design of the connecting bridge in all types of equipotential terminals prevents the clamps from falling out of the bridge when the screw is released. The number and kind of clamps can not be changed. The insulating material of the terminal bases and covers is PA 6 polyamide, V0 flammability acc. to UL 94. Colour of the plastic: EPS 1 grey, EPS 2 beige, EPS 3 grey.



Main parameters

- Operating temperature $-25 \div +55^{\circ}\text{C}$
- Conductor cross-section: $2,5 \div 95 \text{ mm}^2$, grounding strip FeZn 30x4, 20x3, wire FeZn $d=8-12$
- Housing material: Polyamide PA 6, flammability V0 halogen-free
- Mounting: panel, KT box
- Terminals are suitable for connecting copper and aluminium wires
- Variants: with cover or without cover
- Holes for sealing wire
- ČSN EN 60998-1:05 ed. 2, ČSN EN 60998-2-1:05 ed. 2, ČSN EN 60947-1:08 ed. 4a ČSN EN 60974-7-1:03 ed. 2.

17 EQUIPOTENTIAL TERMINALS



		EPS 1	EPS 2	EPS 3
Type of clamp their number in the terminal block	EPS 6 mm ²	2x	4x	8x
	EPS 16 mm ²	4x	6x	6x
	EPS 95 mm ²	4x	2x	-
	EPS – PL30	1x	1x	-
Assembly method		plate / box KT	plate / box KT	plate / box KT
Operating temperature [°C]		-25 ÷ +55	-25 ÷ +55	-25 ÷ +55
Number of clamping points per level		12	13	14
Number of levels		1	1	1
Possibility of storage in a wiring box (only without cover)		KO 125 E, KT 250 L	KO 125 E, KT 250 L	KO 100 E
Testing		EN 60974-7-1	EN 60974-7-1	EN 60974-7-1
Dimensions [mm] (width / height / length)		60 / 50 (60,5 with cover) / 125	60 / 50 (60,5 with cover) / 125	60 / 35,5 / 103,6
Weight [g]		286 (318 with cover)	245 (279 with cover)	128
Packing [pcs]		1	1	1
Order number	with cover	I 223 407	I 223 507	-
	without cover	I 223 400	I 223 500	I 226 700
	without cover on DIN rail	-	I 225 007	-
	IN BOX KO 100E ¹	-	-	I 226 703

Table of connectors for the individual stirrup wires:

Type of stirrup	EPS 6 mm ²	EPS 16 mm ²	EPS 95 mm ²	EPS – PL30
Rated cross-section [mm ²]	6	16	70	
1x Cu (D-solid / stranded conductor)	2,5 ÷ 10 / -	4 ÷ 16 / -	10 ÷ 16 / 10 ÷ 95	Grounding strip: FeZn 20 x 3 mm ¹¹ or 30 x 4 mm
2x Cu (D-solid / stranded conductor)	2,5 / -	4 ÷ 6 / -	10 ÷ 16 / 16 ÷ 25	
1x Cu (L-finely stranded conductor)	2,5 ÷ 6	4 ÷ 16	10 ÷ 70	
2x Cu (L-finely stranded conductor)	2,5	4 ÷ 6	10 ÷ 16	
1x Al	-	-	10 ÷ 95	
Tightening torque of screws (Nm)	0,8	2	6	6
Tools	Screwdriver flat (0,8 x 4 mm)	Screwdriver flat (1 x 5,5 mm)	Inbus number 6	Inbus number 5

¹ The EPS 3 equipotential terminal is inserted freely in the box. The delivery includes connecting material (2x M 5x35 screw and M 5 nut) for attaching EPS 3 in the box. Also, the instruction manual and wood screws for attaching the KO 100E box lid are enclosed. The cover for the EPS 3 equipotential terminal is not supplied.

¹¹ When strip steel 20 x 3 mm is used, the strip must be placed on one side in the clamp and tightened with one screw only. If needed, EPS 95 clamps can be used for connecting a FeZn round wire with the diameter of 8 – 12 mm.

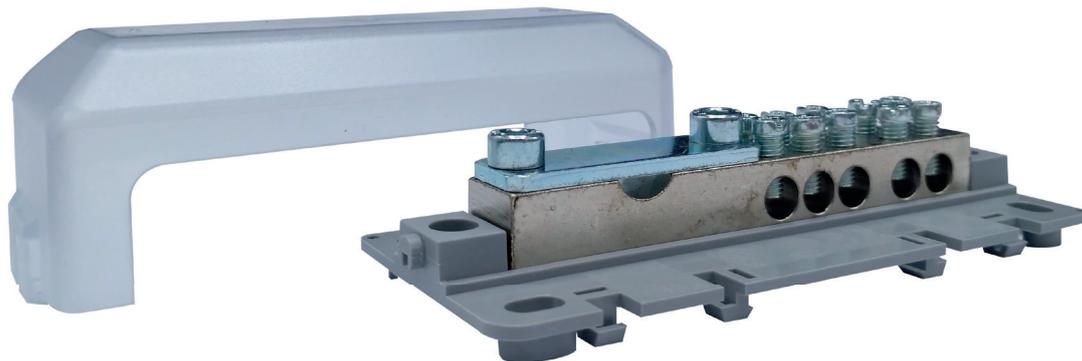


17 EQUIPOTENTIAL TERMINALS

EQUIPOTENTIAL TERMINALS EPS 4 A, B, C, D

The EPS 4 equipotential terminals are used for main bonding – balancing the potential, in compliance with CSN 33 2000-4-41 and as an equipotential terminal in compliance with CSN EN 62 561-1.

FeZn grounding conductors have to be straightened and shaped prior to connection under the conditions of EPS 4 terminal installation. The conductors must not be “tightly stretched” so that the terminal could be pulled out from the TH rail, or the panel (for example from TH 35 rail in KT 250 built in the wall of the object). In applications when it is not possible to avoid stretching conductors, it is recommended to use plastic zip ties to secure EPS 4 on the TH 35 bar (the zip tie is threaded through the corners of EPS 4 that are primarily designed for panel installation screws). Furthermore, conductors have to be cleaned from surface corrosion and impurities that may settle on the conductors during installation (paint etc.).



Design

The terminal board consists of a supporting plate, a bridge and a cover. The bridge is made of factory-finished current-carrying brass. The bridge finish – nickel – allows connecting copper and aluminium conductors (in older installations). In general, the bridges have openings for the connection of nominal conductors 6 and 16 mm². The 30x4, 20x3 earth termination, or earth round wire $\varnothing = 10$ mm are connected using two screws and a plate. The cover is made of polycarbonate, it is transparent, which allows visual check of the terminal board (connections, labels etc.). The connection of the cover and the supporting plate can be secured with lead seal.

The supporting plate (base) is made of polyamide, V0 flammability, colour: UN 7008 (grey). The supporting plate is designed to allow both horizontal and vertical installation of the EPS 4 terminal on the TH 35 rail. EPS 4 can also be installed on the panel (directly on the wall) or in electric installation boxes KO 125 E, KT 250 L etc.

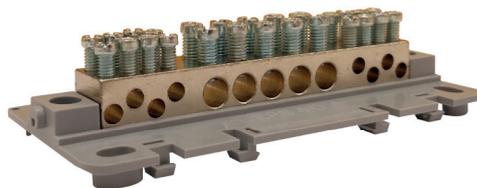
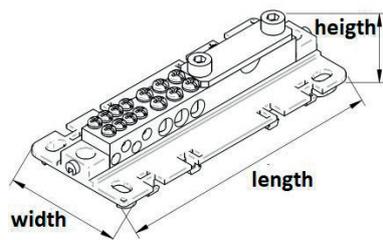
The screws and the plate are made of steel with surface finishing.

Main parameters

- Operating temperature $-25 \div +55^{\circ}\text{C}$
- Conductor cross-section: $1,5 \div 70$ mm², grounding strip FeZn 30x4, wire FeZn $d=10$
- For the connection of stranded wires is necessary to use a ferrule
- Cover material: Polyamide PA 6, flammability V0 without halogen + polycarbonate cover
- Possibility to attach to the rail TH 35 horizontally and vertically, or on a plate, or in a box
- Terminals are suitable for connecting copper and aluminium wires
- Available with cover or without cover
- Certified according to ČSN 33 2000-4-41, EN 62 561-1, 50kA - possibility of connection of overvoltage protection



17 EQUIPOTENTIAL TERMINALS



EPS 4

Clamping units	EPS 4A	10 x 16 mm ² + 1 x 30 x 4 mm (or Ø 10 mm or 70 mm ²)	
	EPS 4B	8 x 6 mm ² + 6 x 16 mm ² + 1 x 30 x 4 mm (or Ø 10 mm or 70 mm ²)	
	EPS 4C	18 x 16 mm ²	
	EPS 4D	16 x 6 mm ² + 10 x 16 mm ²	
Assembly method		TH 35 / plate	
Operating temperature [°C]		-25 ÷ +55	
Number of clamping points per level (A / B / C / D)		11 / 15 / 18 / 26	
Number of levels		1	
Can be mounted in an electrical box (just without cover)		KO 125 E, KT 250 L	
Testing		EN 60974-7-1, EN 62 561-1	
Dimensions [mm] (width / height / length)		49 / 43 / 118	
Packing [pcs]		1	
Order number	EPS 4A with cover	I 228 407	168
	EPS 4A without cover	I 228 400	142
	EPS 4B with cover	I 228 507	169
	EPS 4B without cover	I 228 500	143
	EPS 4C with cover	I 228 607	147
	EPS 4C without cover	I 228 600	121
	EPS 4D with cover	I 228 707	148
	EPS 4D without cover	I 228 700	122

Table of the connectivity of the wires of the individual clamping units:

Clamping unit	6 mm ²	16 mm ²	30 x 4 mm / Ø 10 mm / 70 mm ²
1x Cu (D – solid conductor)	1,5 ÷ 10	1,5 ÷ 25	Grounding strip FeZn 30 x 4 mm or FeZn wire Ø 10 mm or conductor 70 mm ²
1x Cu (L – flexible stranded conductor)	1,5 ÷ 6	1,5 ÷ 16	
Tightening torque screws (Nm)	0,8 ÷ 1,2	0,8 ÷ 2	2
Tools	Screwdriver PH1 / flat (0,8 x 4 mm)	Screwdriver PH2 / flat (01 x 5,5 mm)	Inbus number 4

17 EQUIPOTENTIAL TERMINALS

17.1 Accessories

	EPS 1	EPS 2	EPS 3	EPS 4 A, B, C, D
Adapter APS 2 ¹	1 243 907	1 243 907	1 243 907	-
Cover EPS 1 grey	1 263 415	-	-	-
Cover EPS 2 beige	-	1 263 515	-	-
Cover EPS 4	-	-	-	1 268 405



Adapter APS 1



Cover EPS 2



Cover EPS 4

When you use the APS 2 adapter, the equipotential terminal EPS 1, EPS 2 and EPS 3 can be clamping on the TH 35 rail.

GROUND TERMINAL ZSA 16

This terminal is used for connecting a protective conductor to metal objects and round structures (such as pipes). The product consists on the terminal (external and internal part), two liners and a screw (these parts are made of galvanised steel). The product also includes two M 6 nuts to attach the conductor between the terminal liners. A perfect connection with the bonded structure, free from coating and corrosion, is provided by fitting a copper or stainless strap and tightening it in the terminal. It is not recommended to pour concrete or other substance over the terminal. The copper or stainless strap is not included in the delivery of Ground Terminal ZSA 16 and it is supplied in lengths of 0,5 m (strap), 10 m (scroll) or 50 m (scroll). The strap can be also supplied in unusual lengths according to the customer's requirements. The product is tested according to CSN EN 60998-2-1 and CSN 33 0360.



GROUND TERMINAL ZSA 16 N

Ground terminal ZSA 16 N (stainless) is completely made of stainless steel. The application of the terminal is the same as in the ZSA 16 version with the difference of the possibility to use the terminal in environments with aggressive environmental influences (humidity, chemicals etc.) or in contact with materials that would create galvanic cells in connection with the galvanised steel version. Ground Terminal ZSA 16 N can also be used in aggressive environment together with the stainless ground strap for ZSA 16.

GROUND TERMINAL ZS 16 VK

This ground terminal is designed for additional bonding of pipes. The terminal has a modified design for faster and easier installation. The terminal includes a 250 mm-long stainless or copper strap.



GROUND TERMINAL ZS 4

This terminal was developed in order to connect metal water faucets and similar fittings in areas where additional local bonding is required. The terminal consists of a steel body with a bolt and a liner, and a brass 1/2" nut (the nut is included in the delivery – if needed, the terminal can be delivered without the nut). The brass nut is screwed onto the metal part of the bonded faucet J_s 1/2", then the body of the terminal with the connected conductor is inserted and the faucet is installed into the water distribution system. Tightening the brass nut provides a reliable connection with the bonded object. Ground Terminal ZS 4 is supplied either in the stainless version, or in the galvanised steel version with the inner orifice of 1/2" or 3/8". The product is tested according to CSN EN 60998-2-1 and CSN 33 0360.



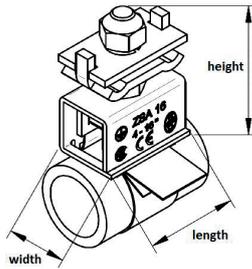
GROUND SCREWS

Ground screws are designed for additional bonding of any metal structure (such as metal tables, stationary electrical appliances etc.). Ground screws are standardly made of refined steel with surface finish. Ground screws can also be supplied in the stainless version on request.



18 GROUND TERMINALS

18.1 Ground terminals



	ZSA 16 ZSA 16 N (stainless steel)	ZS 16 VK
Rated cross-section [mm ²]	16	16
Conductor cross-section [mm ²]	Solid conductor	2,5 ÷ 16
	Stranded conductor	4 ÷ 16
	Finely stranded conductor	4 ÷ 16
Tightening torque [Nm]	3	3
Testing	ČSN EN 60998-2-1	
Dimensions [mm] (width / height / length)	16 / 40 / 28	18 / 21 / 40
Weight [g]	41 / 40	50
Packing [pcs]	300 (ZSA 16) 10 (ZSA 16 N)	10 (with stainless steel tape) 10 (with copper tape)
Use on metal objects (pipes, etc.)	Js 1/2" - 2"	Js 3/8" - 2"
Order number	I 131 307 (ZSA 16)	I 137 368 (with stainless steel tape)
	I 131 360 (ZSA 16 N)	I 137 378 (with copper tape)



Stainless steel tape earthing ZSA 16

Copper tape earthing ZSA 16

For attachment ground terminal ZSA 16		Stainless steel tape earthing ZSA 16			Copper tape earthing ZSA 16		
Recommended tape length:		0,3 x 15 mm			0,3 x 15 mm		
Length [mm]		120	140	160	190	210	250
Nominal tube lightness		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Outer diameter of tube [mm]		min. 21	27	34	42	48	max. 61
Dimensions [m] (Length) / Weight [g]		0,5 / 18			0,5 / 20		
		10 / 370			10 / 400		
		50 / 1850			50 / 2050		
Packing [pcs]		100 in bundle (0,5 m)			100 in bundle (0,5 m)		
		1 scroll (10 m)			1 scroll (10 m)		
Order number	0,5 m	I 141 368			I 142 708		
	10 m	I 141 379			I 142 709		
	50 m	I 141 369			I 142 719		



19 INSULATED TERMINALS HPS, BD

HPS branching insulated terminals are designed for use in industrial and domestic applications for conductive coupling of one or more copper conductors with cross-section from 2,5 mm² to 150 mm². An important advantage of these terminals is the possibility to connect a through conductor without having to cut it off.

BD terminals enable connections of solid and stripped conductors with cross-section from 2,5 mm² to 120 mm² without having to cut off the main through conductor. They are particularly useful where a connection without the interruption of the through conduit is required, or where a reliable and, above all, safe installation is required. The insulation case is designed to provide the best protection against hazardous contact with live parts. Therefore, the fastening screw is protected with a cover that can be additionally identified with a colour-coded BDBS label. The entering groove is not only used for precise lead-in of the conductor, but also for protection against hazardous contact.



Design

The HPS branching insulated terminals are mounted in a plastic case made of white polyamide PA 6, V2 (according to UL94). The functional part consists of a brass threaded insert and a screw with surface finish. The models up to 35 mm² are delivered in a set of 12 terminals that can be manually separated. The countersunk screw is integrated in the lid and has an ISO metric thread. The models 50 mm² and above are equipped with screws with an inner hexagon. The technical properties for HPS terminals are determined according to EN 60998 (35 mm² and higher) and EN 60947 (50 mm² and higher).

The BD terminals are mounted in a plastic case made of red polyamide PA 6, V2 (according to UL94). The functional part consists of a brass threaded insert and a screw with finished surface. The 6 and 10 mm² models are delivered in a set of 12 terminals that can be manually separated. The countersunk screw has an ISO metric thread and it is integrated in the lid equipped with a cover. The lid is also connected with the bottom part of the terminal via a plastic loop. The model 50 mm² and above are equipped with screws with an inner hexagon. The BD terminals with 35 mm² cross-section and higher can be attached to a TH 35 bar and linked together using a clip-on lock.

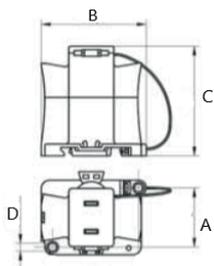


Main parameters

- Operating temperature <110 °C
- Conductor cross-section: 6 ÷ 150 mm²
- Cover material: Polyamide PA 6, flammability V2
- Insulating body: box / plate, rail TH 35 (BD 35 and more)
- Colours design: HPS white, BD red
- Tools: flat screwdriver, inbus
- It is not necessary to interrupt the connected wires (the top part is detachable)
- Possibility to connect two wires to one terminal
- Terminals are tested according to the standard: EN 60998 (terminals 6 ÷ 35), EN 60947 (terminals 50 and bigger)



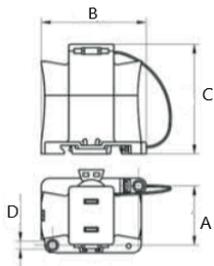
19 INSULATED TERMINALS HPS, BD



		HPS 6	HPS 10	HPS 16
Rated cross-section [mm ²]		6	10	16
Rated current [A]		41	57	76
Short-time withstand current [A]		720	1 200	1 920
Rated voltage U _i [V]		500	500	500
Conductor cross-section [mm ²]	Solid conductor	2 x 2,5 ÷ 6	2 x 4 ÷ 10	2 x 6 ÷ 16
	Finely stranded conductor	2 x 2,5 ÷ 4	2 x 4 ÷ 6	2 x 4 ÷ 10
Tightening torque [Nm]		0,8	1,2	2,5
Tools / screw		Flat screwdriver/ M 5	Flat screwdriver/ M 6	Flat screwdriver/ M 8
Assembly method		On the plate	On the plate	On the plate
Operating temperature [°C]		< 110	< 110	< 110
Number of clamping points per level		1	1	1
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		EN 60998		
Dimensions [mm]	A	15 (12 poles = 177,8)	18 (12 poles = 213,7)	21 (12 poles = 249)
	B	29	31	32
	C	17	23	26
	D (diameter)	3,2	3,2	3,2
Weight [g]		77	140	199 / 17 (1 pole)
Packing [pcs] (12 poles / 1 pole)		1 / -	1 / -	1 / 1
Order number	1 pc = 12 poles	J 441 100	J 441 200	J 441 300
	1 pc = 1 pole	-	-	J 441 301



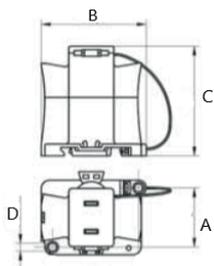
19 INSULATED TERMINALS HPS, BD



	HPS 25/35	HPS 50/A	HPS 70/A	
Rated cross-section [mm ²]	35	50	70	
Rated current [A]	125	150	192	
Short-time withstand current [A]	4 200	6 000	8 400	
Rated voltage U _i [V]	500	1 000	1 000	
Conductor cross-section [mm ²]	Solid conductor	2 x 16 ÷ 35	2 x 25 ÷ 50	2 x 35 ÷ 70
	Finely stranded conductor	2 x 10 ÷ 25	2 x 25 ÷ 35	2 x 35 ÷ 50
Tightening torque [Nm]	2,5	5	5,5	
Tools	Flat screwdriver/ M 12	Inbus number 5	Inbus number 6	
Assembly method	On the plate	On the plate	On the plate	
Operating temperature [°C]	< 110	< 110	< 110	
Number of clamping points per level	1	1	1	
Number of levels	1	1	1	
End cover plate required	NO	NO	NO	
Testing	EN 60998	EN 60947	EN 60947	
Dimensions [mm]	A	25 (12 poles = 297)	29,5	31
	B	36	62,6	63,6
	C	34	47,5	52,75
	D (diameter)	3,2	5,2	5,2
Weight [g]	444	74	90	
Packing [pcs] (12 poles / 1 pole)	1 / -	- / 1	- / 1	
Order number	1 pc = 12 poles	J 441 400	-	-
	1 pc = 1 pole	-	J 441 500	J 441 600



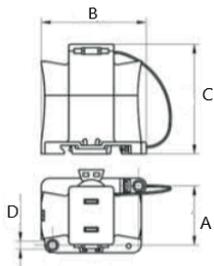
19 INSULATED TERMINALS HPS, BD



	HPS 95/A	HPS 120/A	HPS 150/A
Rated cross-section [mm ²]	95	120	150
Rated current [A]	232	269	309
Short-time withstand current [A]	11 400	14 400	18 000
Rated voltage U _i [V]	1 000	1 000	1 000
Conductor cross-section [mm ²]	Solid conductor	2 x 50 ÷ 95	2 x 70 ÷ 120
	Finely stranded conductor	2 x 50 ÷ 70	2 x 70 ÷ 95
Tightening torque [Nm]	9	11	50
Tools	Inbus number 8	Inbus number 8	Inbus number 14
Assembly method	On the plate	On the plate	On the plate
Operating temperature [°C]	< 110	< 110	< 110
Number of clamping points per level	1	1	1
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	EN 60947		
Dimensions [mm]	A	35,75	38
	B	66,4	67,9
	C	56,5	61
	D (diameter)	5,2	5,2
Weight [g]	137	173	435
Packing [pcs] (1 pole design)	1	1	1
Order number	J 441 700	J 441 800	J 441 900



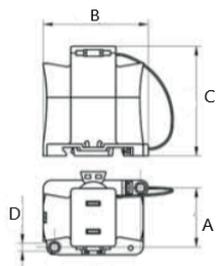
19 INSULATED TERMINALS HPS, BD



	BD 6	BD 10	BD 16	
Rated cross-section [mm ²]	6	10	16	
Rated current [A]	41	57	76	
Short-time withstand current [A]	720	1 200	1 920	
Rated voltage U _i [V]	750	750	750	
Conductor cross-section [mm ²]	Solid conductor	2 x 2,5 ÷ 6	2 x 4 ÷ 10	2 x 6 ÷ 16
	Finely stranded conductor	2 x 2,5 ÷ 4	2 x 4 ÷ 6	2 x 4 ÷ 10
Stripping length [mm]	6	7	8	
Tightening torque [Nm]	0,8	1,2	2,5	
Tools / screw	Flat screwdriver/ M 5	Flat screwdriver/ M 6	Flat screwdriver/ M 8	
Assembly method	On the plate	On the plate	On the plate	
Operating temperature [°C]	< 110	< 110	< 110	
Number of clamping points per level	1	1	1	
Number of levels	1	1	1	
End cover plate required	NO	NO	NO	
Testing	EN 60998			
Dimensions [mm]	A	15,5 (12 poles = 189,4)	17 (12 poles = 214)	21
	B	25	26	33
	C	22,5	27,5	30,6
	D (diameter)	3,3	3,2	3,5
Weight [g]	82 (12 pcs)	140 (12 pcs)	20 (1 pcs)	
Packing [pcs] (12 poles / 1 pole)	1 / -	1 / -	- / 1	
Order number	1 pc = 12 poles	J 441 910	J 441 915	-
	1 pc = 1 pole	-	-	J 441 920



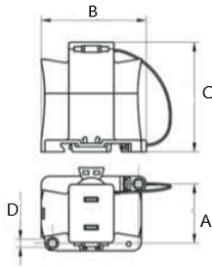
19 INSULATED TERMINALS HPS, BD



		BD 35	BD 50/A	BD 70/A
Rated cross-section [mm ²]		35	50	70
Rated current [A]		125	150	192
Short-time withstand current [A]		4 200	6 000	8 400
Rated voltage U _i [V]		750	1 000	1 000
Conductor cross-section [mm ²]	Solid conductor	2 x 16 ÷ 35	2 x 50	2 x 70
	Finely stranded conductor	2 x 10 ÷ 25	2 x 35	2 x 50
Stripping length [mm]		12	14	16
Tightening torque [Nm]		2,5	5	5,5
Tools		Flat screwdriver/ M 12	Inbus number 5	Inbus number 6
Assembly method		TH 35 / On the plate	TH 35 / On the plate	TH 35 / On the plate
Operating temperature [°C]		< 110	< 110	< 110
Number of clamping points per level		1	1	1
Number of levels		1	1	1
End cover plate required		NO	NO	NO
Testing		EN 60998	EN 60947	EN 60947
Dimensions [mm]	A	25	30	34
	B	45	59	59
	C	46	54	58
	D (diameter)	4,7	4,7	4,7
Weight [g]		45	66	87
Packing [pcs] (1 pole design)		1	1	1
Order number		J 441 925	J 441 935	J 441 945



19 INSULATED TERMINALS HPS, BD



BD 95/A

BD 120/A

Rated cross-section [mm ²]		95	120
Rated current [A]		232	269
Short-time withstand current [A]		11 400	14 400
Rated voltage U _i [V]		1 000	1 000
Conductor cross-section [mm ²]	Solid conductor	2 x 95	2 x 120
	Finely stranded conductor	2 x 70	2 x 95
Stripping length [mm]		18	20
Tightening torque [Nm]		9	11
Tools		Inbus number 8	Inbus number 8
Assembly method		TS 35 / On the plate	TS 35 / On the plate
Operating temperature [°C]		< 110	< 110
Number of clamping points per level		1	1
Number of levels		1	1
End cover plate required		NO	NO
Testing		EN 60947	EN 60947
Dimensions [mm]	A	35	38
	B	61,1	64,3
	C	65	70
	D (diameter)	4,7	4,7
Weight [g]		127	164
Packing [pcs] (1 pole design)		1	1
Order number		J 441 955	J 441 965

19.1 Accessories

Marking	For terminal block type BD	Colour	Amount	Order number (1 pcs = 1 tray)
BDBS 6 / 16 L	BD 6 – 16	Light grey	1 tray [6 labels]	G 184 200
BDBS 6 / 16 T	BD 6 – 16	Green	1 tray [6 labels]	G 184 300
BDBS 6 / 16 N	BD 6 – 16	Blue	1 tray [6 labels]	G 184 400
BDBS 35 / 120 L	BD 35 – 120	Light grey	1 tray [5 labels]	G 184 500
BDBS 35 / 120 T	BD 35 – 120	Green	1 tray [5 labels]	G 184 600
BDBS 35 / 120 N	BD 35 – 120	Blue	1 tray [5 labels]	G 184 700

Labels are sent free of charge on request.



Marking labels BDBS

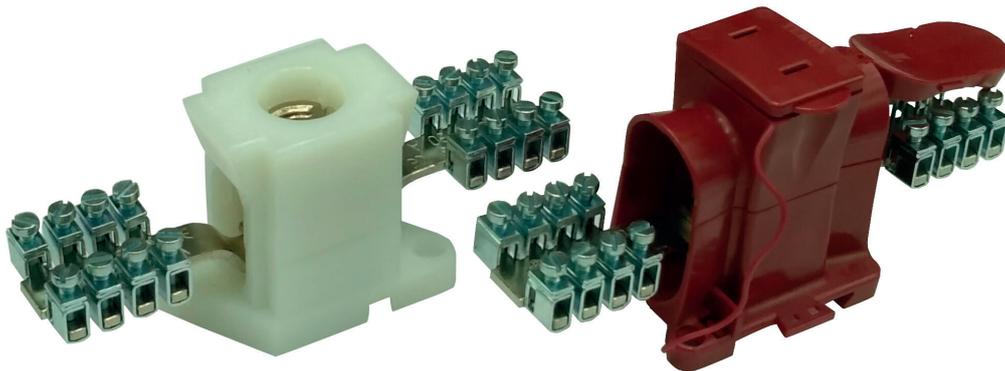


HVS MAIN BRANCH TERMINAL BLOCKS

The HVS main branch terminal block consists of a terminal that has a removable top part. The passing conductor can be inserted from the top without interruption after stripping. The HVS bridge is also attached from the top and if needed, one extra bridge can be inserted on the other side of the terminal. The bridge is tightened in the terminal after the top part is closed and the screw is tightened using an hex key. Branching conductors are attached to the clamps in the bridge as needed. The clamps on the bridge are secured against falling out when loosened. White HVS terminal block cover is supplied as optional equipment.

BDS MAIN BRANCH TERMINAL BLOCKS

The BDS main branch terminal block consists of a BD terminal and a branching bridge. When compared with HVS, their main advantage is the possibility of installation on a DIN rail. The passing conductor can also be inserted without interruption after it has been stripped. The branching bridge can be inserted above the passing conductor. Then, the set is tightened with an hex key and covered. The cover can be marked with coloured BDBS label.



Design

The HVS main branch terminal blocks consist of a branching bridge with clamps and a through insulated HPS terminal, mounted in a plastic case made of white PA 6 polyamide, V2 (acc. to UL94). The functional part consists of a brass threaded insert and a factory-finished screw. The screw is integrated in the lid, it has a metric thread and it is equipped with an internal hexagon. White HVS terminal cover is supplied as optional equipment. Screws are required for mounting on the plate (max. M 5).

The BDS main branch terminal blocks consist of a branching bridge with clamps and a through insulated BD terminal mounted in a plastic case made of red PA 6 polyamide, V2 (acc. to UL94). The functional part consists of a brass threaded insert and a factory-finished screw. The countersunk screw has a metric thread and it is integrated in the lid with a cover. The lid is also connected to the bottom part of the terminal with a plastic loop. The BDS terminal can be fastened on a TH 35 rail, or on the plate using screws (max. M 4).

The brass branching bridge (factory-finished) is equipped with finished steel clamps and screws. The BDS and HVS terminal blocks can be installed either with one or two bridges. The bridge is tightened in the terminal after the top part is closed and the screw is tightened. Branching conductors are attached to the clamps in the bridge as needed. The clamps on the bridge are secured against falling out when loosened.



Main parameters

- Operating temperature $-30 \div +110$ °C
- Cover material: polyamide PA 6, flammability V2
- Mounting: DIN Rail TH 35 (BDS), panel (HVS)
- Colours design: HVS white, BDS red
- Tools: inbus
- For copper and aluminium conductors
- Up to 16 turning options for copper conductor cross-sections $0,75 \div 10$ mm²



20 BRANCHING TERMINAL BLOCKS



	HVS 50	HVS 95	HVS 120
Rated cross-section (main line) [mm ²]	50	95	120
Maximum current load [A]	150 / 150	232 / 160	269 / 160
Rated voltage U _i [V]	1 000	1 000	1 000
Number of turning points / cross-section [mm ²] ¹	8 / 0,75 ÷ 10	8 / 0,75 ÷ 10	8 / 0,75 ÷ 10
Screw (main line)	Inbus number 5	Inbus number 8	Inbus number 8
Tightening torque [Nm] (main line)	5	9	11
Screw (branching conductor)	M 3,5	M 3,5	M 3,5
Tightening torque [Nm] (branching)	0,8	0,8	0,8
Assembly method	On the plate	On the plate	On the plate
Operating temperature [°C]	-30 ÷ +110	-30 ÷ +110	-30 ÷ +110
Number of clamping points per bridge	8	8	8
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Testing	ČSN EN 60947-7-1	ČSN EN 60947-7-1	ČSN EN 60947-7-1
Weight [g]	121	186	222
Packing [pcs]	1	1	1
Order number (terminal block with one bridge)	I 277 507	I 274 707	I 274 807

20.1 Accessories HVS

	HVS 50	HVS 95	HVS 120
Bridge of terminal block HVS [1pc]	I 287 507	I 284 907	I 284 907
Cover HVS [1pc]		I 324 745	



Bridge of terminal block HVS



Cover HVS

¹ For expansion the number of branching places, you can buy another bridge, mounting according to the picture.



20 BRANCHING TERMINAL BLOCKS



	BDS 50	BDS 95	BDS 120
Rated cross-section (main line) [mm ²] solid conductor / stranded	50 / 35	95 / 70	120 / 95
Maximum current load [A] continuous line / branching	150 / 150	232 / 160	269 / 160
Rated voltage U _i [V]	1 000	1 000	1 000
Number of turning points / cross-section [mm ²] ¹	8 / 0,75 ÷ 10	8 / 0,75 ÷ 10	8 / 0,75 ÷ 10
Screw (main line)	M 14	M 18	M 20
Tightening torque [Nm] (main line)	5	9	11
Screw (branching conductor)	M 3,5	M 3,5	M 3,5
Tightening torque [Nm] (branching conductor)	0,8	0,8	0,8
Assembly method	On the plate / TH 35	On the plate / TH 35	On the plate / TH 35
Operating temperature [°C]	-30 ÷ +110	-30 ÷ +110	-30 ÷ +110
Number of clamping points per bridge	8	8	8
Number of levels	1	1	1
End cover plate required	NO	NO	NO
Weight [g]	113	175	212
Packing [pcs]	1	1	1
Order number (terminal block with one bridge)	I 277 607	I 277 707	I 277 807

20.2 Accessories BDS

	BDS 50	BDS 95	BDS 120
Bridge of terminal block BDS [1 pc]	I 287 607	I 287 707	I 287 707



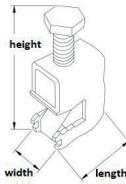
Bridge of terminal block BDS

¹ For expanding the number of branching places, you can buy another bridge, mounting according to the picture.



21 BOW TERMINALS

The Bow terminals are designed for mounting on the bus Cu rail, 5 or 10 mm thick, and concurrently for connecting a conductor with a cross-section of up to 120 mm² according to the individual types. The Bow terminals are made of steel, grade 11, and they are galvanised. The compression spring is stainless. The screws in the terminals have a hexagonal head (except for BKS 16) and they can be tightened using an spanner a screwdriver with a blade with a groove, or a cross-head screwdriver. The terminals are tested with EN 60999-1:2000.

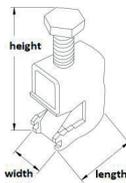


BKS 16

BKS 35

BKS 50

Rated cross-section [mm ²]		16	35	50
Rated current [A]		180	270	315
Rated voltage U _i [V]		690	690	690
Conductor cross-section [mm ²]		1,5 ÷ 16	1,5 ÷ 35	1,5 ÷ 50
Stripping length [mm]		20	20	20
Tightening torque [Nm]		3	10	10
Tools		PH 2	Spanner / PH 2	Spanner / PH 2
Assembly method		On the Cu busbar	On the Cu busbar	On the Cu busbar
Number of clamping points per level		1	1	1
Number of levels		1	1	1
Testing		EN 60 999-1	EN 60 999-1	EN 60 999-1
Dimensions [mm] (width / height / length)	5 mm	(12 / 26,5 / 25,5)	(16,5 / 31,5 / 26,5)	(16,5 / 35 / 26,5)
	10 mm	(12 / 29 / 25,5)	(16,5 / 36,5 / 26,5)	16,5 / 40 / 26,5
Weight [g]		22 / 22	44 / 46	48 / 49
Packing [pcs]		40	20	20
Order number for copper rails (5 / 10 mm)		K 425 705 / K 425 805	K 425 715 / K 425 815	K 425 725 / K 425 825



BKS 70

BKS 120

Rated cross-section [mm ²]		70	120
Rated current [A]		400	440
Rated voltage U _i [V]		690	690
Conductor cross-section [mm ²]		16 ÷ 70	16 ÷ 120
Stripping length [mm]		25	25
Tightening torque [Nm]		10	22
Tools		Spanner / PH 2	Spanner / PH 2
Assembly method		On the Cu busbar	On the Cu busbar
Number of clamping points per level		1	1
Number of levels		1	1
Testing		EN 60 999-1	EN 60 999-1
Dimensions [mm] (width / height / length)	5 mm	(20,5 / 39 / 28)	(23,5 / 46 / 29)
	10 mm	(20,5 / 46 / 28)	(23,5 / 51 / 29)
Weight [g]		63 / 68	88 / 91
Packing [pcs]		10	10
Order number for copper rails (5 / 10 mm)		K 425 735 / K 425 835	K 425 745 / K 425 845



22 GROMMETS AND GLAND PLATES

Gland plates in the HIK, HTC, HTKC, KUPO and other series are special compact plastic plates with pressed-in steel reinforcement and prepared cable bushing. They are designed for applications in distribution panels and boxes, both for exterior and interior use, with temperature range from -40°C to $+130^{\circ}\text{C}$. The grommets can be also installed on top plates of boxes located outside. The basic colour version of the grommet plate is in grey.

The numbers in the type designation of grommets show the number of openings for cables. The cables can have various diameters, the size and precise number of which is specified in the table for the corresponding type.



Design

HSS grommets - material: TPE-SEBS 50 ShA and TPE-SEBS 60 ShA-V0, **Gland plates** – material: TPE-SEBS 65 ShA and TPE-SEBS 60 ShA-V0, halogen-free, operating temperature range -40 to $+130^{\circ}\text{C}$. Indoor and outdoor application.

The gland plates are made of TPE. The material flammability is V0. They are grey (RAL 7035).



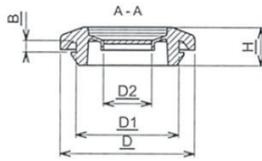
Main parameters

- Operating temperature $-40 \div +130^{\circ}\text{C}$
- Insulating body: TPE
- Cover: IP 20 \div 67 according a type
- Colour design: grey (KUPO and HIK black)



22 GROMMETS AND GLAND PLATES

22.1 Cable grommets HSS and HTL

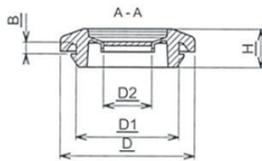


HSS – M9

HSS – M12

HSS – M16

IP code		67	67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE	TPE
Dimensions [mm]	B	1 ÷ 3,5	1,5 ÷ 4,5	1,5 ÷ 4,5
	D	18	22	23,5
	D1	9	12	16
	D2	2 ÷ 7	3 ÷ 5	5 ÷ 10
	H	9	11	11
Weight [g]		1	2	2
Packing [pcs]		1	1	1
Order number		G 550 511	G 550 521	G 550 531

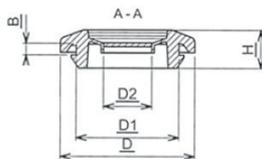


HSS – M20

HSS – M25

HSS – M32

IP code		67	67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE	TPE
Dimensions [mm]	B	1,5 ÷ 4,5	1,5 ÷ 4,5	1,5 ÷ 4,5
	D	27,5	32,5	44
	D1	20	25	32
	D2	7 ÷ 12	8 ÷ 15	14 ÷ 20
	H	11	11	15
Weight [g]		3	5	9
Packing [pcs]		1	1	1
Order number		G 550 541	G 550 551	G 550 561



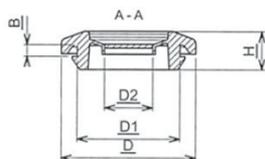
HSS – M40

HSS – M50

HSS – M60

IP code		67	67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE	TPE
Dimensions [mm]	B	1,5 ÷ 4,5	1,5 ÷ 5,5	1,5 ÷ 5,5
	D	53	65	71
	D1	40	50	60
	D2	20 ÷ 28	27 ÷ 35	15 ÷ 45
	H	15	21	21
Weight [g]		13	23	35
Packing [pcs]		1	1	1
Order number		G 550 571	G 550 581	G 550 591

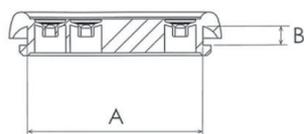
22 GROMMETS AND GLAND PLATES



HSS – M80

HSS – M120

IP code		67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE
Dimensions [mm]	B	1,5 ÷ 5,5	1,5 ÷ 6
	D	93	142
	D1	80	120
	D2	20 ÷ 60	70 ÷ 100
	H	25	26
Weight [g]		62	128
Packing [pcs]		1	1
Order number		G 550 601	G 550 611

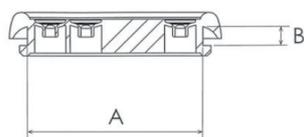


HTL – 28-6

HTL – 32-14

HTL – 50-36

IP code		67	67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE	TPE
Number of cables x diameter [mm]		3 x 3 ÷ 4	14 x 3 ÷ 5,5	36 x 3 ÷ 5,5
		3 x 5 ÷ 9	-	-
Dimensions [mm]	A	28	32	50
	B	1,5 ÷ 5	1,5 ÷ 5	1,5 ÷ 5
Weight [g]		7	7	22
Packing [pcs]		1	1	1
Order number		G 550 621	G 550 631	G 550 641



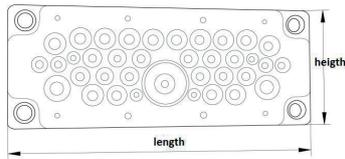
HTL – 50-6

HTL – 50-7

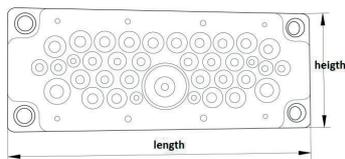
IP code		67	67
Operating temperature [°C]		-40 ÷ +130	-40 ÷ +130
Material		TPE	TPE
Number of cables x diameter [mm]		1 x 12 ÷ 21	7 x 6 ÷ 13
		1 x 7 ÷ 15	-
		4 x 4 ÷ 10	-
Dimensions [mm]	A	50	50
	B	1,5 ÷ 5	1,5 ÷ 5
Weight [g]		21	20
Packing [pcs]		1	1
Order number		G 550 651	G 550 661

22 GROMMETS AND GLAND PLATES

22.2 Gland plates



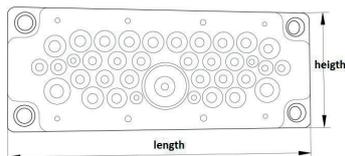
	HTC - 0	HTC - 3	HTC - 16
IP code	65	65 (small hole 55)	54 / 30
Dimensions of plate [mm]	216 x 84	214 x 81,9	216 x 84
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE	TPE	TPE
Fixing hole [mm]	10	10	10
Number of cables x diameter [mm]	-	2 x 24 ÷ 54	1 x D ÷ 40
	-	1 x 30 ÷ 59	15 x D ÷ 20
	-	3 x 6 ÷ 14	-
Maximum number of cables [pcs]	-	6	16
Weight [g]	168	229	253
Packing [pcs]	1	1	1
Order number	G 550 011	G 540 100	G 540 105



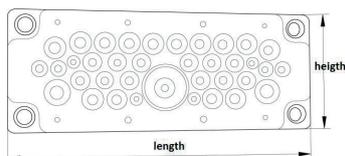
	HTC - 17	HTC - 25	HTC - 35
IP code	55	65 (small hole 55) ¹	65
Dimensions of plate [mm]	216 x 84	216 x 84	216 x 84
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE	TPE	TPE
Fixing hole [mm]	10	10	10
Number of cables x diameter [mm]	9 x 18 ÷ 30 / 10 ÷ 14	1 x 20 ÷ 26 / 12 ÷ 15 ¹	1 x 17 ÷ 32
	4 x 10 ÷ 15	16 x 8 ÷ 14 / 7 ÷ 10 ¹	2 x 12 ÷ 18
	4 x 5 ÷ 10	4 x 14 ÷ 20 / 5 ÷ 10 ¹	16 x 10 ÷ 14
	-	4 x 5 ÷ 7	12 x 7 ÷ 12
	-	-	4 x 6 ÷ 10
Maximum number of cables [pcs]	17	25	35
Weight [g]	187	228	219
Packing [pcs]	1	1	1
Order number	G 540 110	G 540 115	G 540 120

¹ IP 55 is for the sections after the slash.

22 GROMMETS AND GLAND PLATES



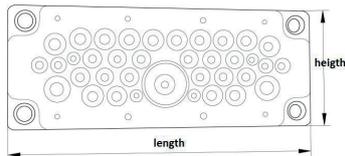
	HTC - 50	HTKC - 25	HTKC - 28
IP code	65	65 (small hole 55) ¹	65
Dimensions of plate [mm]	216 x 84	216 x 84	216 x 84
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE	TPE	TPE
Fixing hole [mm]	10	10	10
Number of cables x diameter [mm]	49 x 7 ÷ 13	1 x 20 ÷ 26 / 12 ÷ 15 ¹	18 x 6 ÷ 13
	1 x 15 ÷ 25	16 x 8 ÷ 14 / 7 ÷ 10 ¹	6 x 13 ÷ 28
	-	4 x 14 ÷ 20 / 5 ÷ 10 ¹	4 x 3 ÷ 11
	-	4 x 5 ÷ 7	-
Maximum number of cables [pcs]	50	25	28
Weight [g]	226	183	182
Packing [pcs]	1	1	1
Order number	G 540 125	G 540 200	G 540 205



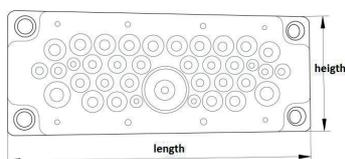
	HTKC - 36	HTKC - 43	HTB - 10
IP code	65	65	55
Dimensions of plate [mm]	216 x 84	216 x 84	138 x 48
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE	TPE	TPE
Fixing hole [mm]	10	10	7,5
Number of cables x diameter [mm]	4 x 4 ÷ 8	4 x 4 ÷ 10,5	2 x 12 ÷ 21
	4 x 6 ÷ 10	38 x 7 ÷ 12,5	2 x 8 ÷ 15
	12 x 7 ÷ 12	1 x 14 ÷ 27,5	6 x 5 ÷ 8
	14 x 10 ÷ 14	-	-
	2 x 12 ÷ 18	-	-
	1 x 17 ÷ 32	-	-
Maximum number of cables [pcs]	37	43	10
Weight [g]	175	181	90
Packing [pcs]	1	1	1
Order number	G 540 210	G 540 215	G 540 000

¹ IP 55 is for the sections after the slash

22 GROMMETS AND GLAND PLATES



	HTX – 23	HTP – 15	HTPC - 16
IP code	55	30	30
Dimensions of plate [mm]	216 x 126	230 x 55	214 x 82
Operating temperature [°C]	-40 ÷ +130	-50 ÷ +120	-50 ÷ +120
Material	TPE	TPE	TPE
Fixing hole [mm]	10	2,75	9,2
Number of cables x diameter [mm]	1 x 33 ÷ 48 / 15 ÷ 18	1 x 11 ÷ 26	1 x 13 ÷ 40
	2 x 25 ÷ 40 / 10 ÷ 16	13 x 8 ÷ 20	15 x 6 ÷ 20
	8 x 18 ÷ 30 / 10 ÷ 14	1 x 21 ÷ 33	-
	4 x 10 ÷ 14	-	-
	4 x 5 ÷ 10	-	-
	4 x 3,5 ÷ 5	-	-
Maximum number of cables [pcs]	23	15	16
Weight [g]	301	89	113
Packing [pcs]	1	1	1
Order number	G 550 031	G 540 225	G 540 220

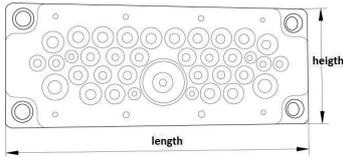


	RIT – 50	HTK – 26	JTLC - 1
IP code	65	20	20
Dimensions of plate [mm]	330 x 90	170 x 68	210 x 79
Operating temperature [°C]	-40 ÷ +130	-50 ÷ +120	-40 ÷ +130
Material	TPE	TPE	Polypropylen PP
Fixing hole [mm]	-	5,2	10
Number of cables x diameter [mm]	2 x 19 ÷ 34	-	-
	4 x 16 ÷ 25	-	-
	2 x 15 ÷ 21	-	-
	26 x 10 ÷ 15	-	-
	16 x 1 ÷ 11	-	-
Maximum number of cables [pcs]	50	26	-
Weight [g]	300	48	27
Packing [pcs]	1	1	1
Order number	G 550 041	G 550 081 ^I	G 550 071 ^{II}

^I It is used in thin centers, in the frame of the distribution cabinet, special holes 160 ÷ 58 mm

^{II} Supporting the gland plates

22 GROMMETS AND GLAND PLATES

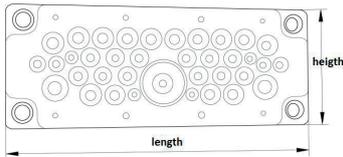


**KUPO – M
with clamping**

**KUPO – G
with clamping**

**KUPO – L
with clamping**

Cover IP	65	65	65
Dimensions of plate [mm]	88 x 82	100 x 87	125 x 125
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE (black)	TPE (black)	TPE (black)
Fixing hole [mm]	6,5	8,2	8,2
Number of cables x diameter [mm]	1 x 14,5 / 23 / 31 / 39 / 47	1 x 16 / 27,8 / 36,2 / 44,6 / 53 / 61,4	1 x 34 / 43 / 52 / 61 / 70 / 79 / 87 / 92 / 96
Maximum number of cables [pcs]	1	1	1
Weight [g]	193	205	420
Packing [pcs]	1	1	1
Order number	G 550 060	G 550 061	G 550 062



HIK 1

HIK 2

HTX - 1

Cover IP	65	65	67
Dimensions of plate [mm]	216 x 84	216 x 84	Diameter 123,1
Operating temperature [°C]	-40 ÷ +130	-40 ÷ +130	-40 ÷ +130
Material	TPE (black)	TPE (black)	TPE
Fixing hole [mm]	8,2	8,2	-
Number of cables x diameter [mm]	1 x 15 ÷ 64 1 x 15 ÷ 35 4 x 8 ÷ 14	2 x 15 ÷ 64	1 x 55 ÷ 70
Maximum number of cables [pcs]	6	2	1
Weight [g]	372	472	181
Packing [pcs]	1	1	1
Order number	G 550 091	G 550 101	G 550 021

23 ADDITIONAL MATERIAL

23.1 TH Rails and accessories

23.1.1 TH Rails

The supporting DIN rails are standardised according to EN 60715. The rails are supplied with the Sendzimir or stainless finishing. Rail can be dimensioned according to your demands. The supporting rails in non-standard lengths with openings at the ends are delivered in packs of five.



Main parameters

- Standardized by EN 60715
- TH Rails material: steel, stainless steel
- Surface treatment of steel rails: Sendzimir and galvanic zinc (on request)
- Design: full, perforated (5,2 x 25 mm / 6,3 x 18 mm)

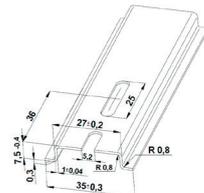
TH 35 x 7,5 full

Length [mm] / Weight [g]	2 000 / 680	1 000 / 340	2 000 / 675	1 000 / 333
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)	Stainless steel	Stainless steel
Packing [pcs]	20	according to order	20	according to order
Order number	E 151 110	E 151 111	E 151 452	E 126 450



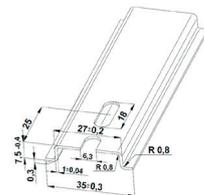
TH 35 x 7,5 perforated 5,2 x 25 mm

Length [mm] / Weight [g]	2 000 / 600	1 000 / 300
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)
Packing [pcs]	20	according to order
Order number	E 151 113	E 151 114



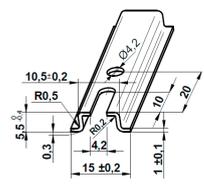
TH 35 x 7,5 perforated 6,3 x 18 mm

Length [mm] / Weight [g]	2 000 / 600	1 000 / 300	2 000 / 670
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)	Stainless steel
Packing [pcs]	20	according to order	20
Order number	E 151 115	E 140 120	E 151 451



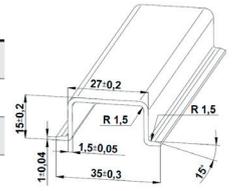
TH 15

Length [mm] / Weight [g]	600 / 440	800 / 635	1 000 / 820
Material (surface treatment)	Fe (Sendzimir)		
Packing [pcs]	5	5	5
Order number [5pcs]	E 222 120	E 224 120	E 226 120



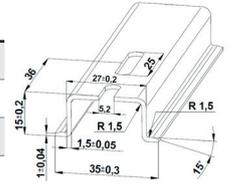
TH 35 x 15 full

Length [mm] / Weight [g]	2 000 / 1 360	1 000 / 680
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)
Packing [pcs]	10	according to order
Order number	E 451 110	E 451 111



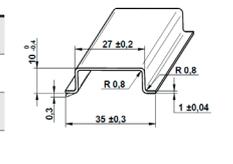
TH 35 x 15 perforated 5,2 x 25 mm

Length [mm] / Weight [g]	2 000 / 1 210	1 000 / 605
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)
Packing [pcs]	10	according to order
Order number	E 451 113	E 451 114



TH 35 x 10 full

Length [mm]	2 000	1 000
Material (surface treatment)	Fe (Sendzimir)	Fe (Sendzimir)
Packing [pcs]	10	according to order
Order number	E 551 110	On request



23.1.2 TH Rail Holder

The holders are used for attaching DIN rails of various versions. Using oblique holders (TS/30 oblique or TS/50 oblique) allows installing DIN rails at angle of 35°. Using flat holders (TS/20 flat, TS/30 flat or TS/50 flat) allows installing the DIN rail horizontally to the holder. They are made of steel, with ZnCr finishing. All holders (except for TS/30 oblique) have an opening for attaching the DIN rail equipped with a metric thread with lead for easier assembly (screws for attachment are not provided).



Main parameters

- Suitable for connecting various types of DIN rails
- Can be attached to DIN rails using the oblique holder (TS/30, TS/50) at 35° angle
- Can be attached parallel to the base using the flat holder (TS/20, TS/25, TS/30 or TS/50 flat)
- Holders are made of steel, with ZnCr finishing

Type of holder	TS/20 flat	TS/25 flat	TS/30 flat	TS/50 flat	TS/30 oblique	TS/50 oblique
Dimensions [mm] (h/w/l)	20 / 18 / 84	25 / 20 / 80	30 / 20 / 80	50 / 20 / 80	30 / 18 / 53	50 / 18 / 72
Mounting holes / diameter [mm]	65 / 7	63 / 7	64 / 7	64 / 7	42 / 5,3	60 / 7
Holes for fixing rails	M 5	M 6	M 6	M 6	Ø 5,3 (without thread)	M 5
Strength of materials [mm]	1,8	2	2	2	1,5	1,8
Weight [g]	26	35	38	50	18	33
Order number	E 741 110	E 741 114	E 741 111	E 741 112	E 841 110	E 741 113

23 ADDITIONAL MATERIAL

23.2 Holder on DIN Rail

FIX-KLIP

- The holders are used for attaching distributor accessories on DIN rails (that is usually attached on the plate).
- Weight [g]: 4
- Order number: E 741 116



Holder for blocks DTS on rail TH 35

- Used to fastening DTS blocks to DIN rails
- Weight [g]: 6
- Order number: UD0001.2



23.3 Sealing screws



The screws are used when it is required to protect the device and other equipment with a cover, which is fastened using the sealing screws in addition to standard screws. It is recommended to use them where it is primarily required to prevent unauthorised use.

Technical parameters	M4x10	M5x10	M5x16	M5x20	M6x10
Screw	M 4	M 5	M 5	M 5	M 6
Length of stem [mm]	10	10	16	20	10
Screw head (height / diameter) [mm]	5 / 7	6,5 / 8,5	6,5 / 8,5	6,5 / 8,5	8 / 10
Number of holes in the screw head	4	4	4	4	4
Screwdriver blade (flat)	0,8 x 4	1, x 5,5	1, x 5,5	1 x 5,5	1 x 5,5
Screw material	steel class 11 (ZnCr)				
Packing [pcs] / Weight [g]	100 / 2	100 / 4	10 / 4	100 / 4	100 / 5
Order number	K 354 892	K 354 992	K 355 292	K 355 192	K 355 092

23.4 Plastic document holder

The plastic document holder is designed for storing the revision report, technical documentation and other documents printed on A4 paper, placed in plastic or metal distribution cabinet. It can be mounted on the wall using a double-sided tape, supplied with the holder, or using self-tapping screws (not included), for which there are two pre-compressed openings with the diameter of 6 mm. The holder is made of shockproof plastic material (Polystyrene) and it is standardly delivered in grey, RAL 7035. The front part of the holder has a prepared area, size 50 x 30 mm, for the identification label.

- Designed for storing documentation in switchboards (dimension A4)
- Like a part of the holder is included a double-sided adhesive tape for switchboards
- The holder can also be mounted with a screw (two holes of diameter 6 mm)



Technical parameters

Width / height / length [mm]	264 / 236 / 33
Colours design	grey (RAL 7035)
Weight [g]	132
Packing [pcs]	1
Order number	G 403 909

23.5 Protective profiles

The protective profiles are designed for the protection of transition edges (inputs and outputs from cable trays or distribution panels etc.). The profile body is made of PVC and it is supplied in grey (RAL 7035) or black. The frame is made from a metal profile that allows easy installation without tools. The two versions are for metal sheet that is 1 – 2 mm, or 1 – 4 mm. The operating temperature range is from -25 to +60°C

- To protect the transverse edges
- For sheet metal thickness 1 ÷ 2 mm / 1 ÷ 4 mm
- Grey / black design
- Operating temperature -25 ÷ 60°C



Type of protective rail	Protective rail 2 mm grey	Protective rail 4 mm grey	Protective rail 2 mm black	Protective rail 4 mm black
Weight [kg]	6,5 / 0,65	14 / 1,4	6,5 / 0,65	14 / 1,4
Packing [m]	scroll 100 / 10	scroll 100 / 10	scroll 100 / 10	scroll 100 / 10
Order number	100 m	G 403 609	G 413 609	G 413 709
	10 m	G 403 610	G 413 610	G 413 710

23.6 Tools

MAXXPRO SCREWDRIVER

The screwdrivers are individually tested at 10 000 V in water bath and they are designed for high voltage work up to 1 000 V. They meet all the terms and conditions of EN 60900/IEC 60900 and they are certified by VDE, GS. The head of the screwdriver is flat.



The size of the screwdriver blade	0,5 x 3,0 mm	0,8 x 4,0 mm	1,0 x 5,5 mm
Recommended for clamps	RSA 2,5 A; RSA 4 A	RSA 6 A; RSA 10 A	RSA 16 A
Order number	J 423 610	J 423 620	J 423 630

PROFI-EB SCREWDRIVER

The screwdrivers are individually tested at 10 000 V in water bath and they are designed for high voltage work up to 1 000 V. They meet all the terms and conditions of EN 60900/IEC 60900 and they are certified by VDE, GS. The screwdriver is fitted with Philips head (PH).



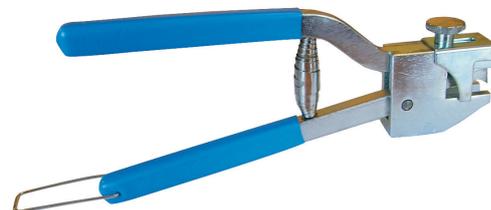
The size of the screwdriver blade	PH 0	PH 1	PH 2
Recommended for clamps	RSA 2,5 A; RSA 4 A	RSA 6 A; RSA 10 A	RSA 16 A
Order number	J 423 310	J 423 320	J 423 330

PUNCHING PLIERS

The punching pliers are used for removing (punching) the side wall of RSA terminal blocks for installing interconnections. Note: To cut through the side wall of the RSA 35 A terminal for jumper installation, you can use regular flat pliers with jaw width of 9 mm.

Technical parameters

Size of pliers (mm)	7
Recommended for clamps	RSA 4 A; RSA 6 A
Order number	J 430 000



BIT WITH EXTENDED STEM

A typical bit with extended stem is specially designed for tightening screws used on RSA 2,5 A and RSA PE 2,5 A terminals (PH 0) and RSA 4 A and RSA PE 4 A (PH 1) terminals. Thanks to a 3 mm narrow stem in an extended length of 15 mm, it allows trouble-free clamping of the clamps.



Technical parameters	PH 0	PH 1
Packing [pc] / Weight [g]	1 / 7,4	1 / 7,4
Recommended for clamps	RSA 2,5 A; RSA PE 2,5 A	RSA 4 A; RSA PE 4 A
Order number	J 423 519	J 423 520

23.7 Printers

Thermal transfer printer

The advantage of this printer is an easy use, fast and exceptionally resistant printing (thermo-transfer printing – does not need to dry out), small dimensions, easy maintenance and long service life. You can create labels for terminal blocks, terminals, conductors, bundled cables and various electric appliances, by various manufacturers.

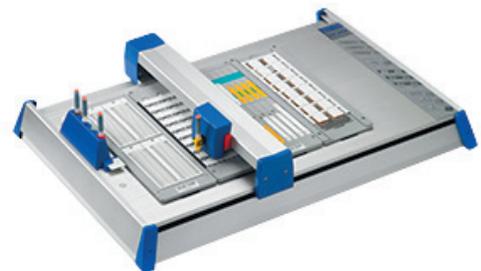
The user-friendly software, supplied with the printer for free, allows easy printing creations in various text styles, creating sequential label series, inserting electrical symbols, drawing own symbols, inserting graphic images from files and easy import from prepared databases.



Order number: JO 806 000

Plotter EK VARIO VP 600A3

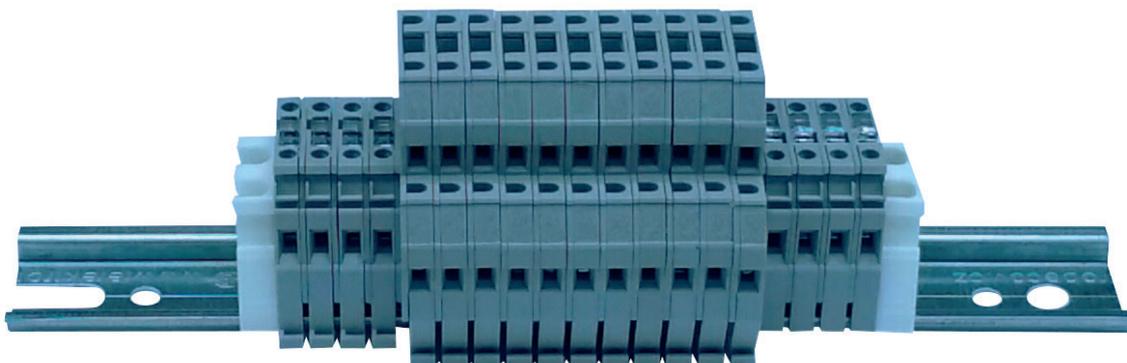
The plotter is a multifunctional printing device that allows printing identification plates for RSA terminals or other components, as well as the identification strip for RSA terminals (the plotter is supplied with software modified for the RSA identification strip). The plotter can be used for printing various types of labels, plates, draw bands, couplers and many other components commonly used in distribution panels, or generally in electrical engineering.



Order number: on request

24 ELECTRONICS MODULES

The RSE terminal blocks, equipped with electronic modules, are suitable for extra-low voltage circuits (some types are also suitable for the low voltage intensity level). These are terminals with case and clamping units that are standard for terminal blocks; the terminals have a printed circuit. This combination creates terminals that stand out thanks to their small dimensions. The terminals can be used in control, switch and protection applications.



Design

All types are fitted with a heat-treated steel bracket with galvanic coating for reliable clamping of conductors. The screws in RSE terminals have a combined heads – a phillips PH or a flat-blade screwdriver can be used. The material of the screws is steel with galvanic coating.

All RSE terminals have an insulation body made of polyamide PA 6 with V0 flammability according to UL 94, halogen free. The basic colour of the insulating body is grey.

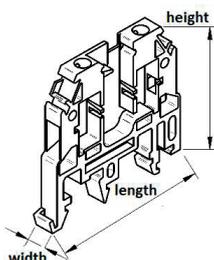


Main parameters

- Operating temperature $-20 \div +55 \text{ }^{\circ}\text{C}$
- Conductor cross-section: $2,5 \text{ mm}^2$
- Insulating body: Polyamide PA, flammability V0 halogen free
- Pollution degree: 2
- Cover: IP 20
- Mounting on DIN rails: TH 35 (some types of electronics modules can be used on TH 15, G 32)
- Tools: screwdriver PH 0
- Testing: ČSN EN 60947-7-1



24.1 RSE D

**RSE D**

Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 15, TH 35, G 32
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	2
Number of levels	1
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5
Weight [g]	8
Packing [pcs]	1

Type		Maximum load	Order number
RSE D R1A	Terminal with protective and separation diode	400 V DC / 1 A	A 128 001
RSE D S250mA	Terminal with protective and separation Schottky diode	30 V DC / 250 mA	A 128 002

RSE D R1A - TERMINAL WITH PROTECTIVE AND SEPARATION DIODE

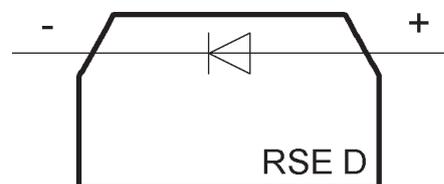
NP silicone diode 400 V / 1A.

Application: Accumulator charging from an external source, protection against undesirable transition of voltage signal (logic circuits), protection against load peaks (switching electromagnetic coils of e.g. the contactor, electromagnetic valves), testing control lamp circuits.

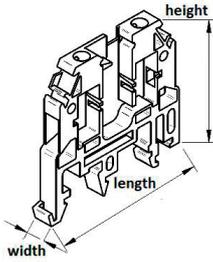
RSE D S250mA - TERMINAL WITH PROTECTIVE AND SEPARATION SCHOTTKY DIODE

Schottky diode 30 V / 250 mA.

Application: Similar to RSE D R1A but in extremely fast switching circuits (in MHz units). Significantly lower voltage drop when compared to standard diodes.



24.2 RSE LD



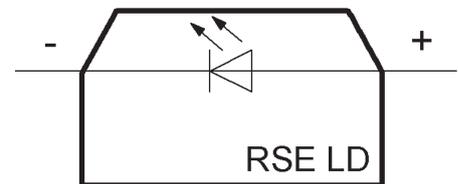
RSE LD

Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 15, TH 35, G 32
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	2
Number of levels	1
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5
Weight [g]	8
Packing [pcs]	1

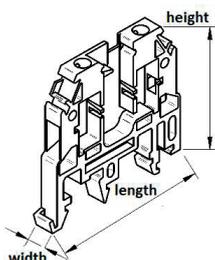
Type		Maximum load	Order number
RSE LD R24V	Terminal with LED 24 VDC red	30 V DC	A 128 003
RSE LD G24V	Terminal with LED 24 VDC green	30 V DC	A 128 004
RSE LD Y24V	Terminal with LED 24 VDC yellow	30 V DC	A 128 005
RSE LD B24V	Terminal with LED 24 VDC blue	30 V DC	A 128 006
RSE LD W24V	Terminal with LED 24 VDC warm white	30 V DC	A 128 007
RSE LD C24V	Terminal with LED 24 VDC cold white	30 V DC	A 128 008

RSE LD x24 V

Application: Light signalling with frequent switching operation of the equipment (long service life).
 Description: Indication LED diodes may be in red, green, yellow, blue, warm white and cold white.
 Operating voltage 3 V DC ÷ 30 V DC, current consumption < 5mA.



24.3 RSE PC



RSE PC

Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U _{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 15, TH 35, G 32
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	2
Number of levels	1
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5
Weight [g]	8
Packing [pcs]	1

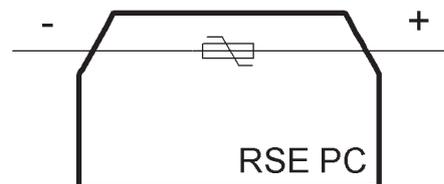
Type		Maximum load	Order number	Order number variant with LED
RSE PC 50	Terminal with return fuse PC 50 mA	30 V DC / 0,05 A	A 128 015	A 128 025
RSE PC 100	Terminal with return fuse PC 100 mA	30 V DC / 0,1 A	A 128 016	A 128 026
RSE PC 200	Terminal with return fuse PC 200 mA	30 V DC / 0,2 A	A 128 017	A 128 027
RSE PC 300	Terminal with return fuse PC 300 mA	30 V DC / 0,3 A	A 128 018	A 128 028
RSE PC 500	Terminal with return fuse PC 500 mA	30 V DC / 0,5 A	A 128 019	A 128 029
RSE PC 1000	Terminal with return fuse PC 1000 mA	30 V DC / 1 A	A 128 020	A 128 030
RSE PC 1250	Terminal with return fuse PC 1250 mA	30 V DC / 1,25 A	A 128 021	A 128 031
RSE PC 1500	Terminal with return fuse PC 1500 mA	30 V DC / 1,5 A	A 128 022	A 128 032
RSE PC 2000	Terminal with return fuse PC 2000 mA	24 V DC / 2 A	A 128 023	A 128 033
RSE PC 3000	Terminal with return fuse PC 3000 mA	24 V DC / 3 A	A 128 024	A 128 034

RSE PC xxx – TERMINAL WITH A RETURN FUSE

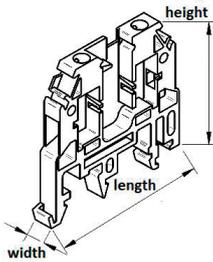
A return polymer fuse with positive temperature coefficient (PPTC) 30 V DC 0,05 to 1,5 A and 24 V DC 2 and 3 A. Module polarity is not important.

Application: Current protection of data networks, substitute for tube fuses (PLC outputs, relays, contactors, sensors, electromagnetic valves).

With or without a signalling LED diode indicating release of the fuse. For proper release indication function, the polarity of the module connection has to be preserved according to the diagram.



24.4 RSE TL



RSE TL

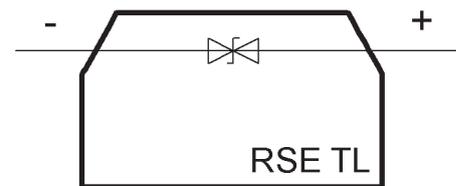
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U _{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 15, TH 35, G 32
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	2
Number of levels	1
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5
Weight [g]	8
Packing [pcs]	1

Type		Maximum load	Order number
RSE TL 5V	Terminal with overvoltage protection with bi-directional transil	5 V / 400 W	A 128 035
RSE TL 15V	Terminal with overvoltage protection with bi-directional transil	15 V / 400 W	A 128 036

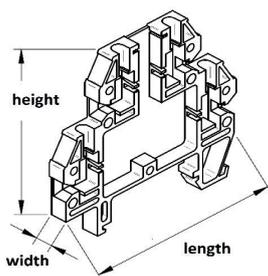
RSE TL xx – TERMINAL WITH OVERVOLTAGE PROTECTION WITH BI-DIRECTIONAL TRANSIL

Bi-directional transil 1,5 kW / 1 ms (400 W / 10 ms). The volt-ampere characteristics is similar to two anti-serial connected Zener diodes.

Application: Overvoltage protection of connected circuits from 5 to 15 V, mainly as EMI (Electro Magnetic Interference), protection against electrostatic discharges, fast transition events, surge waves etc.



24.5 RSE 4D



RSE 4D

Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Maximum load	Order number
RSE 4D R1A	Terminal with rectifying bridge	400 V AC / 1 A	A 128 201
RSE 4D S250mA	Terminal with a Schottky rectifying bridge	30 V AC / 250 mA	A 128 202

RSE 4D R1A – TERMINAL WITH A RECTIFYING BRIDGE

NP silicon diodes 400 V / 1 A connected in a bridge.

Application: Feeding direct-current components and circuits (control lamps, electromagnetic valves, voltage stabilisers).

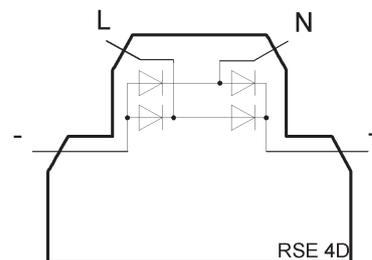
RSE 4D S250mA – TERMINAL WITH A SCHOTTKY RECTIFYING BRIDGE

Schottky diode: 30 V / 250 mA connected in a bridge.

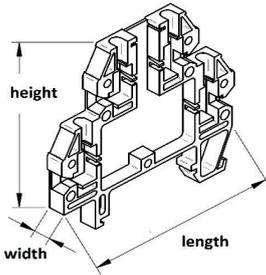
Application: Similar to RSE 4D R1A, but in extremely fast switching circuits (in MHz units), computer technology, radar equipment.

Significantly lower voltage drop when compared to standard diodes.

The stated current is determined as a continuous load of the equipment.



24.6 RSE KT U, U24



RSE KT U, U24

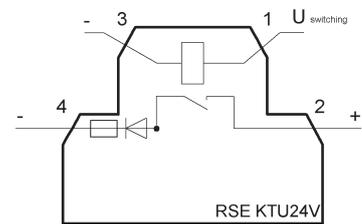
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Switching voltage	Max. output load	Order number
RSE KT U24A	Terminal with galvanic separator 24 V	30 V DC	30 V DC / 0,25 A	A 128 203
RSE KT U4A	Terminal with high side switch	12 - 30 V DC	30 V DC / 4 A	A 128 208
RSE KT U8A	Terminal with high side switch	12 - 30 V DC	30 V DC / 8 A	A 128 209

RSE KT U24V – TERMINAL WITH 24 V GALVANIC SEPARATOR

Optical switch (30 V DC / 250 mA), signalling LED diode, switching transistor (30 V DC / 250 mA), output protection against polarity inversion (Schottky diode) and overcurrent (return fuse).

Application: Circuits with power supply of up to +30 V DC. Where it is required to provide galvanic isolation of various appliances due to security, circuit protection or separation of various potentials.

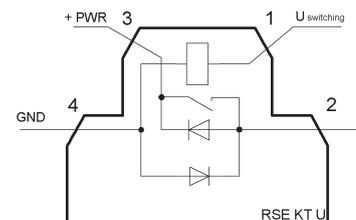


RSE KT U – TERMINAL WITH A POWER SWITCH AGAINST THE SUPPLY WITH A NOT GALVANICALLY SEPARATED OUTPUT

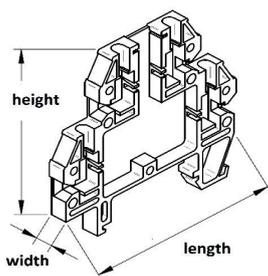
A power unipolar transistor as a high side switch (30 V DC / 2,5 A), a signalling LED diode, a protective (recuperative) diode for switching inductive load and module with 2 A output current, protection against overcurrent (return fuse).

Application: Switching load of up to +30 V DC (resistance, inductive).

The stated current is determined as a continuous load of the equipment.



24.7 RSE KT G



RSE KT G

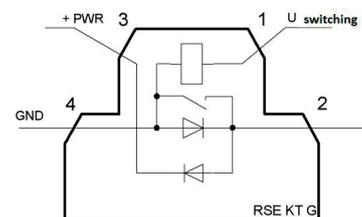
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Switching voltage	Max. output load	Order number
RSE KT G4A	Terminal with low side switch, not galvanically separated output	12 - 30 V DC	30 V DC / 4 A	A 128 205
RSE KT G8A	Terminal with low side switch, not galvanically separated output	12 - 30 V DC	30 V DC / 8 A	A 128 206
RSE KT G12A	Terminal with low side switch, not galvanically separated output	12 - 30 V DC	30 V DC / 12 A	A 128 207

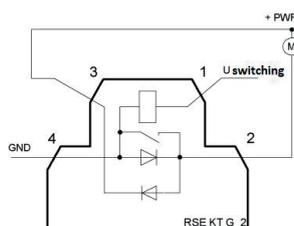
RSE KT G – TERMINAL WITH A POWER SWITCH AGAINST THE GROUND WITH A NOT GALVANICALLY SEPARATED OUTPUT

A power unipolar transistor as a low side switch, (30 V DC / 4, 8, 12 A), a signalling LED diode, a protective (recuperative) diode for switching inductive load (input 3). An anti-parallel diode to the switching transistor and overload protection.

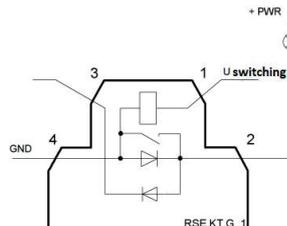
Application: Switching load of up to +30 V DC (resistance, inductive).



General scheme



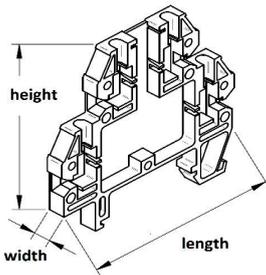
Example of wiring with inductive load



Example with resistive load



24.8 RSE KT DC, KT DCB



RSE KT DC, KT DCB

Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Max. switching voltage	Max. output load	Order number
RSE KT DC2A	Terminal with 24 V solid state relay	3 - 30 V DC	30 V DC / 2 A	A 128 214
RSE KT DC8A	Terminal with 24 V solid state relay	3 - 30 V DC	30 V DC / 8 A	A 128 215
RSE KT DC15A	Terminal with 24 V solid state relay	3 - 30 V DC	30 V DC / 15 A	A 128 216
RSE KT DCB8A	Terminal with solid state relay from 24 V DC to 24 V AC/DC	3 - 30 V DC	30 V ACDC / 8 A	A 12 8217
RSE KT DCB15A	Terminal with solid state relay from 24 V DC to 24 V AC/DC	3 - 30 V DC	30 V ACDC / 15 A	A 128 218

RSE KT DC – TERMINAL WITH 24 V SOLID STATE RELAY

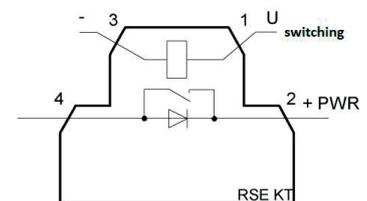
Current inverter, isolating transformer (input 30 V DC, insulated strength 1500 V DC), power transistor (30 V / 2, 8, 15 A), a signalling LED diode, a protective transistor for switching inductive load and for module with 2 A output current, protection against overcurrent (return fuse).

Application: Isolation of logic circuits up to +24 V DC. Where it is required to provide galvanic isolation of various appliances due to security, circuit protection or separation of various potentials. The induction load has to be bridged over with a protective diode (e.g. module RSE D R1A).

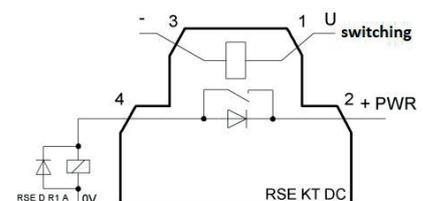
RSE KT DCB – TERMINAL WITH SOLID STATE RELAY FROM 24 V DC TO 24 V AC/DC

Current inverter, isolating transformer (input 30 V DC, insulated strength 1500 V DC), power transistor (30 V / 8, 15 A), a signalling LED diode, a protective transistor for switching inductive load.

Application: Isolation of logic circuits up to +24 V DC from a power, logic or analogue circuit up to 30 V AC/DC. Where it is required to provide galvanic isolation of various appliances due to security, circuit protection or separation of various potentials. The induction load has to be bridged over with a protective diode (e.g. module RSE D R1A).



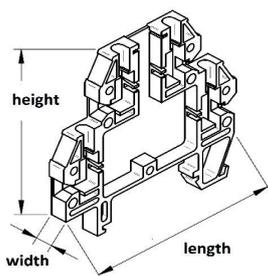
General scheme



Example of load



24.9 RSE SSR



RSE SSR

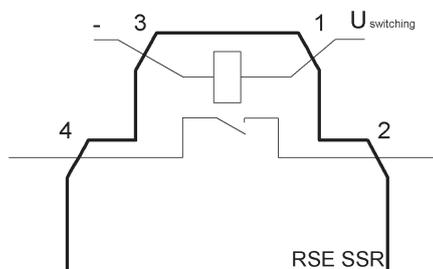
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Max. switching voltage	Max. output load	Order number
RSE SSR AC1A	Terminal with solid state relay	3 - 30 V DC	250 V AC / 1 A	A 128 210

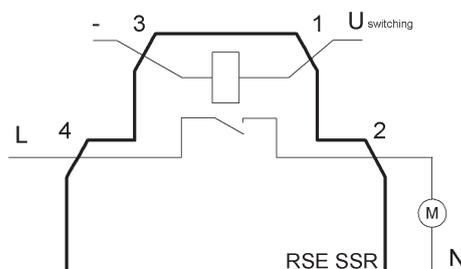
RSE SSR AC1A – TERMINAL WITH SOLID STATE RELAY

Power solid state relay with galvanic isolation (insulated strength 1500 V AC), a signalling LED diode, a protective bi-directional transil. Zero cross.

Application: Switching load of up to 250 V AC / 1 A.



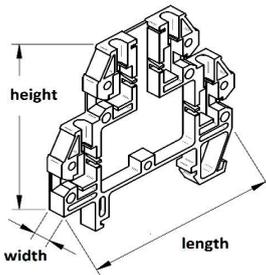
General scheme



Example of connection



24.10 RSE SZ



RSE SZ

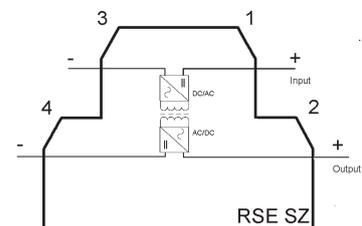
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Max. switching voltage	Max. output load	Order number
RSE SZ 5V	Terminal with DC / DC convertor with transformer	24 V	5 V DC / 100 mA	A 128 219
RSE SZ 10V	Terminal with DC / DC convertor with transformer	24 V	10 V DC / 50 mA	A 128 223
RSE SZ 12V	Terminal with DC / DC convertor with transformer	24 V	12 V DC / 50 mA	A 128 220
RSE SZ 15V	Terminal with DC / DC convertor with transformer	24 V	15 V DC / 40 mA	A 128 221
RSE SZ 24V	Terminal with DC / DC convertor with transformer	24 V	24 V DC / 30 mA	A 128 222

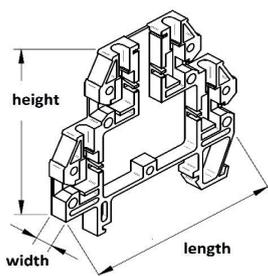
RSE SZ xx – TERMINAL WITH DC/DC CONVERTOR WITH TRANSFORMER

Current inverter, isolating transformer (insulated strength 1500 V DC), Schottky bridge, a signalling LED diode, voltage stabiliser 5 V / 50 mA, 12 V / 50 mA, 15 V / 40 mA, 24 V / 30 mA.

Application: Isolation of logic circuits up to 24 V DC and stabilisation of output voltage 5, 10, 12, 15 and 24 V DC. Where it is required to provide galvanic isolation of various appliances due to security, circuit protection or separation of various potentials and to stabilise output voltage at various levels.



24.11 RSE R120 TL



RSE R120 TL

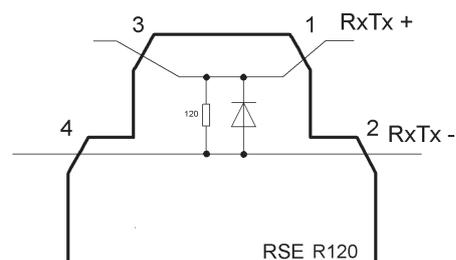
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Maximum load	Order number
RSE R120 TL	Terminal with terminator and transil	12 V DC / 0,4 kW	A 128 230

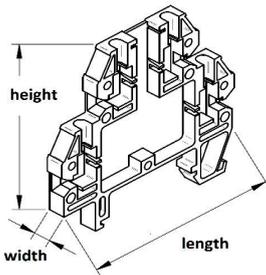
RSE R120 TL – TERMINAL WITH TERMINATOR AND TRANSIL

Resistance parallel to bi-directional transil.

Application: Impedance adjustment of both ends of the RS 485 communication line conduit.



24.12 RSE GO U10V



RSE GO U10V

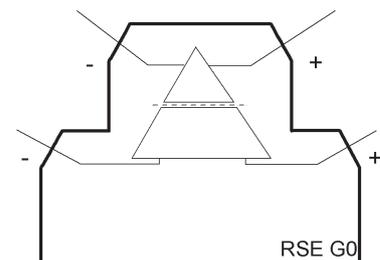
Rated cross-section [mm ²]	2,5
Rated impulse withstand voltage U_{imp} [V DC]	1 500
Conductor cross-section [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method (on DIN rail)	TH 35
Pollution degree	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of clamping points per level	4
Number of levels	2
End cover plate required	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5,2 / 61,1 / 62,2
Weight [g]	18
Packing [pcs]	1

Type		Input	Output	Order number
RSE GO U10V	Terminal with a galvanically separated converter	5 - 12 V / 10 k Ω	0 - 10 V / 50 Ω	A 129 001

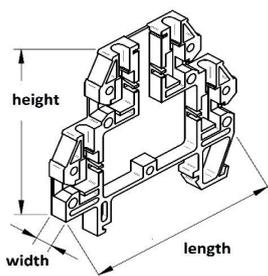
RSE GO U10V - TERMINAL WITH A GALVANICALLY SEPARATED CONVERTER

A galvanically isolated analogue voltage signal converter. Voltage offset 200 mV, Linearity <2%.

Application: Where it is required to galvanically isolate an analogue signal, low off-load consumption up to 20 mA.



24.13 RSE SBD



RSE SBD

Conductor cross section [mm ²]	2,5
Impulse voltage U_{imp} [V]	1 500
Connection range [mm ²]	0,5 ÷ 2,5
Stripping length [mm]	6,5
Tightening torque [Nm]	0,4
Tools	Screwdriver PH 0
Assembly method	TH 35
Contamination class	2
IP code	20
Operating temperature [°C]	-20 ÷ +55
Number of connection points	2
Number of levels	1
Need to end partition	NO
Testing	ČSN EN 60947-7-1
Dimensions [mm] (width / height / length)	5 / 40,5 / 41,5
Weight [g]	8
Packing [pc]	1

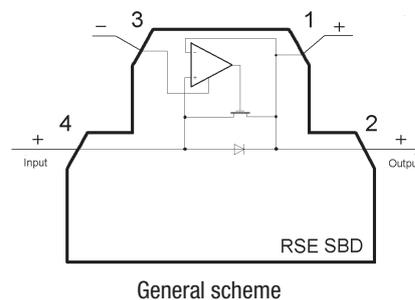
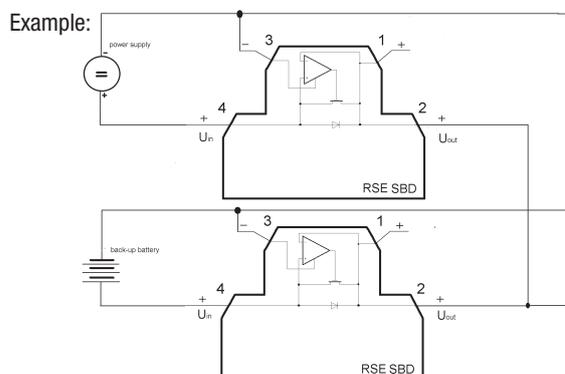
Type		Input	Max. output load	Order number
RSE SBD-10	Terminal with smart bypass diode	5 - 30 V DC	5 - 30 V DC / 10 A	A 129 002
RSE SBD-20	Terminal with smart bypass diode	5 - 30 V DC	5 - 30 V DC / 20 A	A 129 003

RSE SBD – TERMINAL WITH SMART BYPASS DIODE

Terminal serves to separate the positive potential of the DC power supplies. Signal LED.

Application: linking photovoltaic cells, connecting the back-up battery to the power system for smooth power transfer within the backup.

Power loss max. 0,5 W.



TRADE TERMS OF ELEKTRO, V. D. IN BEČOV NAD TEPLOU

BASIC INFORMATION:

- ELEKTRO, v. d. in Bečov nad Teplou, a production cooperative (hereinafter “the Seller”)

Place of business: Tovární 128, CZ-364 64 Bečov nad Teplou

Company ID: 00028886, Tax ID: CZ00028886, a legal entity incorporated in the Commercial Register managed by the Regional Court in Plzen, Section Dr. XXVI, File 248

Contact persons: Pier Antonio Perra	Mob: (+39) 348 83 68 543 E-mail: pierperra@libero.it
Brigita Plachá	Tel: (+420) 353 361 114 Mob: (+420) 732 510 948 E-mail: export@elektrobecov.com

Official website of the Company: www.elektrobecov.com

COMMERCIAL INFORMATION:

These Trade Terms of the Elektro Production Cooperative in Bečov nad Teplou (hereinafter “the Seller”) regulate the mutual rights and liabilities of the Parties incurred in relation to or on the basis of a purchase contract concluded between the Seller and the consumer (hereinafter the Buyer) in compliance with the provisions of Section 1751, Art. 1, Act No. 89/2012 Coll., the Civil Code.

All deliveries and services provided to entrepreneurs within the meaning of Section 420 and the following of the Civil Code are subject to these Trade Terms. The Trade Terms represent an integral part of contracts concluded between the Seller and the Buyer for delivering goods and providing services. The Buyer declares upon the conclusion of a contract that they have acquainted themselves with these Trade Terms and that they agree with them. The offer of goods and services always includes an express reference to the current version of these Trade Terms.

In terms of these Trade Terms, the goods mean material, products or related services specified in the valid catalogue or in a written order of the Seller.

The information about the goods and price provided by the Seller is binding, except for any obvious errors. The prices are presented without VAT, and without the costs of delivery (forwarding) of the goods. (EXW Becov).

The acceptance of an offer with a supplement or a deviation is not considered an offer acceptance, but a counter-proposal of the Buyer.

Confirmation of the contents of a contract concluded in any other way than in writing, showing deviations from the actually arranged contents of the contract, does not have any legal effects.

ORDER OF GOODS

- The order must contain identification data of the Buyer, including the company ID, VAT number, address of the place of business of the Buyer, a legible name, surname and function of the person who signed the order.
- Customer orders are confirmed exclusively on the customer's request.
- The Seller reserves the right to round the quantity of the ordered products to a delivery of a whole package, i.e. the quantity stated in the pricelist as STANDARD PRODUCT PACKAGE.
- The price list will be sent under customer request.

PRODUCT PRICES, PRICELIST

The price list will be sent under customer request.

TERMS OF PAYMENT

The Seller issues a proper tax document (invoice) to the Buyer for the ordered and delivered goods. The maturity of the tax document (invoice) is determined on the basis of an individual agreement between the Seller and the Buyer.

When the Buyer is in delay with the payment of the invoices for previous deliveries of the goods, the Seller reserves the right to suspend any further deliveries of goods to the Buyer for the duration of the delay in the payment of delivery invoices from the Seller after maturity. Therefore, the Seller may postpone the dispatch of goods based on a new order from the Buyer without being required to notify the Buyer of such action.

GOODS DELIVERY – DISPATCH

Goods which are in the stock are dispatched in the fastest possible term, usually not longer than within 5 business days.

The Seller delivers the goods to the Buyer complete. The Buyer shall accept the goods and pay for them. The Buyer is recommended to check the goods as soon as possible after acceptance.

The Seller shall send the Buyer all the documents to the goods, namely the tax document and delivery note, immediately upon the acceptance of the goods, however, no later than three days after the Buyer accepted the goods.

GOODS TRANSPORT

We strongly recommend against accepting any shipments with visibly damaged packaging without writing a report on the damage into the transport note, or checking the contents of the damaged shipment at the presence of the carrier.

The Seller does not accept any liability for delays and damages to the deliveries of goods caused by the carrier, however, if there is a written record of damage in the transport note made by the Buyer, the Seller solves the complaint with the carrier.

Packaging – The goods are usually dispatched in unreturnable packaging (cardboard). When the goods are delivered in returnable packaging (such as EUR pallets), the recipient shall return such packaging to the carrier.

GOODS TRANSPORT PRICES:

The prices depend on the final destination and the type of transport used.

GOODS QUALITY WARRANTY:

The Seller is liable for delivering goods with properties and parameters corresponding to the catalogue, the Seller's technical documentation, or technical standards.

The Seller is not liable for any damages incurred due to improper handling of the goods, improper use, unprofessional and improper processing of the goods, unprofessional handling of the goods, or inappropriate storage.

Any potential provision of warranty by the Seller for the quality of the sold goods (for its functionality and capability for the usual use) is subject to the laws of the Czech Republic, particularly the Civil Code.

COMPLAINTS AND RETURNS

Without unnecessary delay, the Buyer shall thoroughly inspect and check the goods upon its delivery and acceptance for any damage caused during the transport, or for any obvious quantitative or qualitative defects. If the Buyer fails to meet this preventative obligation, the Seller shall not be liable for any potential damage incurred by the Buyer due to a later detection of obvious defects in the delivery of the goods.

The Buyer shall file a complaint regarding the defects of the goods with the Seller without unnecessary delay after detecting the defect, within the period of twelve months after the acceptance of the goods. The complaints regarding the defects of the goods have to be filed in writing and they have to contain:

Invoice number, delivery note number, type of defective goods, detailed description of the defect, requirements for settlement of the complaint (complaint settlement).

The Buyer shall inform the Seller what complaint settlement the Buyer prefers, either in the written complaint, or as soon as possible after the notification of the defect. It is only possible to change the complaint settlement without the Seller's approval when the Buyer requested a repair of a defect that proves to be unrecoverable.

The Buyer shall provide a proof of purchase (preferably a delivery note). The deadline for settling the complaint starts on the day of the acceptance/delivery of the returned goods to the Seller. The Buyer shall deliver the returned goods to the Seller for assessment wrapped in suitable packaging to prevent damage during transport, and the goods should be clean and complete.

The Seller shall decide upon the complaint, or whether or not an expert's opinion is required, immediately, however, no later than in five business days. The Seller shall notify the Buyer of the need for an expert's opinion on the returned goods within the time period specified above. The Seller shall settle the complaint, including the removal of the defect, without unnecessary delay, not later than in 30 days after it was filed, unless the Seller and the Buyer agree on a later deadline in writing. After the lapse of the determined period, the Buyer has the same rights as in case of a substantial breach of the contract. If the Seller refuses to remove the defect, the Buyer may demand a reasonable discount of the price, or withdraw from the contract.

If the complaint is justified, the Seller shall let the Buyer, after mutual agreement, return the defective goods. The condition for the return of the goods is that the goods are not damaged and soiled. The goods shall meet the criteria and compliance with the currently sold assortment of goods. The warranty shall be extended by the period of time from filing the complaint until its settlement, or until the Buyer is required to collect the item. If the goods or their parts are replaced, the Seller's liability for defects of the goods shall apply as if it was a purchase of new goods or their parts.

QUANTITY DEVIATION

The products in the group of coiling connectors delivered in multipacks, the products in the group of protective sections delivered in a 100 m coil, and earthing Cu and stainless coils are subject to the permitted deviation of +/- 3 %. The weight or quantity deviation also applies to goods that are not included in the catalogue, namely deliveries of screws and other connecting material.

PERSONAL DATA PROTECTION

The Buyer gives the Seller consent with processing and archiving their personal data in unnecessary scope, only for the purpose of fulfilling the subject matter of the contract, in compliance with the Personal Data Protection Act (No. 101/2000 Coll.) and the General Data Protection Regulation (GDPR) No. 2016/679/EU. The Buyer has the right to be informed about what data the Seller keeps about them, and the right to change such data, or to express their written disapproval of the method and purpose of processing such data.

The Seller declares that the security of personal data during their processing within the contractual relationship between the Seller and the Buyer fully complies with the requirements and terms and conditions stipulated by the Personal Data Protection Act, No. 101/2000 Coll., and the EU General Data Protection Regulation (GDPR), No. 2016/679/EU.

The Buyer is entitled to request that the Seller stops sending their commercial messages to the electronic address obtained in relation to the fulfilment of the contract, without incurring any costs.

RESOLUTION OF DISPUTES

The Seller and the Buyer undertake to resolve any mutual disputes by agreement. If it is not possible to reach an agreement, the disputes shall be resolved by corresponding general courts of the Czech Republic, at the proposal of one of the parties to the dispute.

FINAL PROVISIONS

The Seller reserves the right to change, amend or cancel these Trade Terms by issuing new Trade Terms, and the relations between the Seller and the Buyer shall be governed by the Trade Terms valid as of the day of the conclusion of the contract between the Seller and the Buyer.

These Trade Terms become effective on 1 February 2019 and they are available on the website of Elektro, v. d. in Bečov nad Teplou.

General information

Company name: Elektro, výrobní družstvo v Bečově nad Teplou

Legal form: Cooperative

VAT number: CZ00028886

Headquarters: Becov nad Teplou, Tovarni 128, 364 64 Czech Republic

Sale:

Phone: +420 353 361 112

Mobile: +420 777 750 056

Mobile: +420 732 510 948

E-mail: odbyt@elektrobecov.cz

export@elektrobecov.com

Business Development Manager

Pier Antonio Perra

Mobile: +39 348 836 8543

E-mail: pierperra@libero.it

www.elektrobecov.com